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MILITARY CONSTRUCTION APPROPRIATIONS FOR 1991

HEARINGS

BEFORE A

SUBCOMMITTEE OF THE

COMMITTEE ON APPROPRIATIONS
HOUSE OF REPRESENTATIVES

ONE HUNDRED FIRST CONGRESS

SECOND SESSION

SUBCOMMITTEE ON MILITARY CONSTRUCTION APPROPRIATIONS

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WILLIAM A. MARINELLI, HENRY E. MOORE, and MARY FEDELI, *Subcommittee Staff*

PART 1

Justification of the Budget Estimates

ARMY

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CONSTRUCTION PROGRAMS (C–1)

DEPARTMENT OF DEFENSE BUDGET
FOR FISCAL YEAR 1991

January 29, 1990

Distribution

Department of the Army	45
Department of the Navy	25
Department of the Air Force	35
USD(Acquisition)	1
DDR&E	1
ASD(P&L)	30
ASD(C^3I)	1
ATSD(AE)	1
USD(Policy)	2
ASD(ISA)	2
ASD(ISP)	1
ASD(SO/LIC)	1
ASD(FM&P)	2
ASD(HA)	5
ASD(PA&E)	1
ASD(RA)	1
Comptroller, DoD	1
Deputy Comptroller (P/B)	1
Dir. Plans & Systems	2
Dir. Construction	50
Defense Inspector General	1
Director, DMA	1
Director, DCA	1
Director, DIA	1
Director, DNA	1
Director, DLA	1
Director, NSA	1
Director, SDIO	1
Director, WHS	1
Director, DRSP	1
President, USUHS	1
OJCS	20
US Special Operations Command/Wash. Ofc	2
DOD Dependents' Schools	1
OMB	3
GAO	1
Congressional Committees	110

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ALABAMA		
ARMY		
ANNISTON ARMY DEPOT		
AMMUNITION DEMIL MAINTENANCE FACILITY	10,200	
AMMUNITION DEMILITARIZATION FACILITY	54,300	
ANNISTON ARMY DEPOT		64,500
REDSTONE ARSENAL		
PHYSICAL SCIENCES RESEARCH CENTER	14,400	
REDSTONE ARSENAL		14,400
FORT RUCKER		
FLIGHT SIMULATOR BUILDING	3,400	
FORT RUCKER		3,400
**ARMY		82,300
AIR FORCE		
GUNTER AFB		
ADD TO/ALT SENIOR NCO ACADEMY	8,200	
STUDENT DORMITORY	3,100	
STUDENT DORMITORY	8,800	
GUNTER AFB		20,100
MAXWELL AFB		
ALTER STUDENT DORMITORIES	2,750	
COMMUNICATIONS GROUP COMPLEX	5,300	
JUDGE ADVOCATE GENERAL ACADEMIC FACILITY	7,700	
SECURITY POLICE OPERATIONS FACILITY	1,750	
STUDENT DORMITORY	5,000	
MAXWELL AFB		22,500
**AIR FORCE		42,600
DEFENSE LOGISTICS AGENCY		
DEF RETUIL AND MKTG OFC ANNISTON		
OPERATIONS FACILITY/OPEN STORAGE	2,370	
DEF RETUIL AND MKTG OFC ANNISTON		2,370
ARMY NATIONAL GUARD		
SELMA		
ARMORY	1,447	
ORGANIZATIONAL MAINTENANCE SHOP20	587	
SELMA		2,034
AIR NATIONAL GUARD		
BIRMINGHAM MAP		
UPGRADE TAXIWAY	520	
BIRMINGHAM MAP		520
ARMY RESERVE		
MOBILE		
ARMY RESERVE CENTER W/MAINTENANCE FACILITY	3,188	
MOBILE		3,188
AIR FORCE RESERVE		
MAXWELL AFB		
SURVIVAL EQUIPMENT/LIFE SUPPORT SHOP	1,025	
MAXWELL AFB		1,025
**ALABAMA		134,037
ALASKA		
ARMY		
FT J M WAINWRIGHT		
CONSOLIDATED FUEL FACILITY	2,300	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ALASKA		
ARMY		
FT J M WAINWRIGHT		
UTILITIES EXPANSION	3,300	
FT J M WAINWRIGHT		5,600
NAVY		
ADAK NAVAL AIR STATION		
SOLID WASTE DISPOSAL FACILITY	4,250	
ADAK NAVAL AIR STATION		4,250
ADAK NAVAL SECURITY GROUP ACTIVITY		
OPERATIONS BUILDING ADDITION	3,000	
ADAK NAVAL SECURITY GROUP ACTIVITY		3,000
AMCHITKA ISLAND FLEET SURVEILLANCE SPT CMD		
ELECTRONIC INSTALLATION	31,000	
AMCHITKA ISLAND FLEET SURVEILLANCE SPT CMD		31,000
**NAVY		38,250
AIR FORCE		
CLEAR AFS		
ALTER DORMITORY-PHASE II	5,000	
CLEAR AFS		5,000
EIELSON AFB		
UPGRADE SEWAGE TREATMENT PLANT	12,400	
EIELSON AFB		12,400
GALENA AIRPORT		
VEHICLE MAINTENANCE FACILITY	8,700	
GALENA AIRPORT		8,700
KING SALMON AFB		
VEHICLE REFUELING SHOP	2,500	
KING SALMON AFB		2,500
SHEMYA AFB		
ADD/UPGRADE BASE ENGINEER COMPLEX	6,300	
ALTER DORMITORY	7,800	
BASE ENGINEER MAINTENANCE SHOP	3,700	
FLIGHTLINE ACCESS ROAD	2,400	
RENOVATE SUPPORT FACILITY	15,400	
SEWAGE TREATMENT PLANT	2,700	
UPGRADE BASE ROADS	1,400	
VEHICLE MAINTENANCE FACILITY	7,700	
SHEMYA AFB		47,400
VARIOUS LOCATIONS-ALASKA		
OTH-B-NONTECHNICAL SUPPORT FACILITIES	11,000	
VARIOUS LOCATIONS-ALASKA		11,000
**AIR FORCE		87,000
ARMY NATIONAL GUARD		
AKIACHAK		
ARMORY SCOUT	275	
AKIACHAK		275
ANCHORAGE		
TRNG SITE LATRINE (6)	866	
ANCHORAGE		866
GOLOVIN		
ARMORY, SCOUT, NEW	275	
GOLOVIN		275

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ALASKA		
ARMY NATIONAL GUARD		
KASIGLUK		
ARMORY SCOUT	275	
KASIGLUK		275

**ARMY NATIONAL GUARD		1,691
AIR NATIONAL GUARD		
KULIS ANGB		
FIRE SUPPRESSION SYSTEM	4,000	
KULIS ANGB		4,000

**ALASKA		136,541
ARIZONA		
ARMY		
FORT HUACHUCA		
FIRE STATION	1,050	
FORT HUACHUCA		1,050
NAVY		
YUMA MARINE CORPS AIR STATION		
AVIATION SUPPLY WAREHOUSE	3,720	
YUMA MARINE CORPS AIR STATION		3,720
AIR FORCE		
LUKE AFB		
LAND ACQUISITION	1,800	
LUKE AFB		1,800
WILLIAMS AFB		
ADD TO AND ALTER FLIGHT SIMULATOR	400	
AUXILIARY FIELD/LAND ACQUISITION	5,500	
BASE ENGINEER COMPLEX	2,350	
SPECIALIZED UPT MAINT AND OPS SUPPORT	900	
WILLIAMS AFB		9,150

**AIR FORCE		10,950
ARMY NATIONAL GUARD		
PHOENIX		
UNITED STATES PROPERTY&FISCAL OFFICE	1,994	
UNITED STATES PROPERTY&FISCAL WAREHOUSE	1,605	
PHOENIX		3,599
AIR NATIONAL GUARD		
TUCSON IAP		
ADD TO AIRCRAFT PARKING APRON	2,300	
FIRE STATION	1,200	
TUCSON IAP		3,500
AIR FORCE RESERVE		
DAVIS-MONTHAN AFB		
CIVIL ENGINEERING TRAINING FACILITY	900	
DAVIS-MONTHAN AFB		900

**ARIZONA		23,719
ARKANSAS		
ARMY		
PINE BLUFF ARSENAL		
DETECTION PAPER FACILITY	1,600	
PINE BLUFF ARSENAL		1,600

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ARKANSAS		
AIR NATIONAL GUARD		
LITTLE ROCK AFB		
COMPOSITE TRAINING FACILITY	950	
LITTLE ROCK AFB		950
FT SMITH MAP		
ADD TO AND ALTER FIRE STATION	530	
TAXIWAY	400	
FT SMITH MAP		930
**AIR NATIONAL GUARD		1,880
ARMY RESERVE		
FORT CHAFFEE		
REGIONAL TRAINING SITE-MAINTENANCE	2,651	
FORT CHAFFEE		2,651
**ARKANSAS		6,131
CALIFORNIA		
ARMY		
FT IRWIN		
HARDSTAND/TACTICAL EQUIPMENT SHOP	4,200	
FT IRWIN		4,200
FORT ORD		
WATER DISTRIBUTION SYSTEM (PHASE I)	7,400	
FORT ORD		7,400
**ARMY		11,600
NAVY		
CAMP PENDLETON AMPHIBIOUS TASK FORCE		
LANDING CRAFT AIR CUSHION SUPPORT COMPLEX	8,470	
CAMP PENDLETON AMPHIBIOUS TASK FORCE		8,470
CAMP PENDLETON MARINE CORPS AIR STATION		
CONSTRUCTION & WEIGHT HANDLING EQUIP SHOP	4,110	
CAMP PENDLETON MARINE CORPS AIR STATION		4,110
CAMP PENDLETON MARINE CORPS BASE		
ELECTRONICS COMMUNICATIONS MAINT SHOP	5,330	
MESS HALL	3,720	
MILITARY OPERATIONS IN URBANIZED TERRAIN	10,860	
CAMP PENDLETON MARINE CORPS BASE		19,910
CHINA LAKE NAVAL WEAPONS CENTER		
ADVANCED WEAPONS LABORATORY	17,585	
CHINA LAKE NAVAL WEAPONS CENTER		17,585
CONCORD NAVAL WEAPONS STATION		
RAILROAD/VEHICULAR BRIDGE	9,850	
CONCORD NAVAL WEAPONS STATION		9,850
CORONA NAVAL WEAPONS STA SEAL BEACH ANNEX		
WEAPONS TEST AND EVALUATION FACILITY	8,870	
CORONA NAVAL WEAPONS STA SEAL BEACH ANNEX		8,870
EL TORO MARINE CORPS AIR STATION		
DATA PROCESSING CENTER	3,970	
HAZARDOUS AND FLAMMABLE STOREHOUSES	3,010	
EL TORO MARINE CORPS AIR STATION		6,980
LEMOORE NAVAL AIR STATION		
WEAPONS SCHOOL ADDITION	900	
LEMOORE NAVAL AIR STATION		900

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
CALIFORNIA		
NAVY		
LONG BEACH NAVAL SHIPYARD		
ASBESTOS REMOVAL SHOP	500	
LONG BEACH NAVAL SHIPYARD		500
LONG BEACH NAVAL STATION		
WHARF UTILITIES UPGRADE	3,520	
LONG BEACH NAVAL STATION		3,520
MIRAMAR NAVAL AIR STATION		
TOPGUN ACADEMIC FACILITY	4,040	
WEAPONS SCHOOL ADDITION	1,420	
MIRAMAR NAVAL AIR STATION		5,460
MONTEREY NAVAL POSTGRADUATE SCHOOL		
LECTURE HALL ADDITION & SEISMIC UPGRADE	2,190	
PUBLIC WORKS COMPLEX	6,620	
MONTEREY NAVAL POSTGRADUATE SCHOOL		8,810
NORTH ISLAND NAVAL AIR STATION		
HIGH EXPLOSIVE MAGAZINES	1,510	
NORTH ISLAND NAVAL AIR STATION		1,510
POINT MUGU PACIFIC MISSILE TEST CENTER		
SECURITY IMPROVEMENTS	2,070	
POINT MUGU PACIFIC MISSILE TEST CENTER		2,070
PORT HUEMEME NAVAL SHIP WPN SYS ENGR STA		
WEAPON SYSTEMS INTEGRATION LABORATORY	10,150	
PORT HUEMEME NAVAL SHIP WPN SYS ENGR STA		10,150
PORT HUENEME NAVAL CONSTRUC BATTALION CTR		
ELECTRICAL DISTRIBUTION SYSTEM IMPROVEMNTS	2,010	
PORT HUENEME NAVAL CONSTRUC BATTALION CTR		2,010
SAN DIEGO FLEET ANTI-SUB WAR TRNG CTR PAC		
BACHELOR ENLISTED QUARTERS	8,950	
SAN DIEGO FLEET ANTI-SUB WAR TRNG CTR PAC		8,950
SAN DIEGO NAVAL OCEAN SYSTEMS CENTER		
COMBINED RESEARCH LABORATORY	11,760	
SAN DIEGO NAVAL OCEAN SYSTEMS CENTER		11,760
SAN DIEGO NAVAL SUBMARINE BASE		
OILY WASTE SYSTEM	540	
SAN DIEGO NAVAL SUBMARINE BASE		540
SAN DIEGO NAVAL SUPPLY CENTER		
COLD STORAGE WAREHOUSE	8,800	
SAN DIEGO NAVAL SUPPLY CENTER		8,800
SAN DIEGO NAVAL TRAINING CENTER		
BARRACKS	5,630	
RECRUIT SUPPORT CENTER AND CHAPEL	5,779	
SMALL ARMS RANGE	3,820	
SAN DIEGO NAVAL TRAINING CENTER		15,229
SAN DIEGO NAVY PUBLIC WORKS CENTER		
STEAM DISTRIBUTION SYSTEM IMPROVEMENTS	3,320	
SAN DIEGO NAVY PUBLIC WORKS CENTER		3,320
SKAGGS ISLAND NAVAL SECURITY GROUP ACT		
POTABLE WATER SYSTEM	1,472	
SKAGGS ISLAND NAVAL SECURITY GROUP ACT		1,472
TWENTYNINE PALMS MARCORP AIR-GRND COMB CTR		
FIELD MAINTENANCE SHOP	3,620	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
CALIFORNIA		
NAVY		
TWENTYNINE PALMS MARCORP AIR-GRND COMB CTR		
INDUSTRIAL WASTEWATER TREATMENT FACILITIES	2,600	
POTABLE WATER STORAGE TANK	4,600	
TWENTYNINE PALMS MARCORP AIR-GRND COMB CTR		10,820

**NAVY		171,596
AIR FORCE		
BEALE AFB		
DORMITORY	6,300	
BEALE AFB		6,300
CASTLE AFB		
SECURITY POLICE OPERATIONS FACILITY	3,000	
CASTLE AFB		3,000
EDWARDS AFB		
JET ENGINE MAINTENANCE FACILITY	11,600	
RENOVATE FLIGHT TEST AUDIOVISUAL SPT FAC	5,500	
EDWARDS AFB		17,100
MARCH AFB		
TROOP SUBSISTENCE WAREHOUSE	1,050	
MARCH AFB		1,050
MCCLELLAN AFB		
ADD TO AND ALT DEPOT CORROSION CTRL COMP	11,200	
MCCLELLAN AFB		11,200
SIERRA DEPOT		
STUDENT DORMITORY	3,650	
SIERRA DEPOT		3,650
TRAVIS AFB		
ALTER CONSOLIDATED SUPPORT CTR-PHASE II	5,800	
DINING HALL	5,000	
TRAVIS AFB		10,800
VANDENBERG AFB		
LAND ACQUISITION PHASE I	10,000	
TITAN IV LAUNCH COMPLEX-PHASE I	19,200	
VANDENBERG AFB		29,200

**AIR FORCE		82,300
DEFENSE MEDICAL SUPPORT ACTIVITY		
CAMP PENDLETON MARINE CORPS BASE		
HOSPITAL FIRE PROTECTION	1,750	
CAMP PENDLETON MARINE CORPS BASE		1,750
SPECIAL OPERATIONS COMMAND		
CORONADO NAVAL AMPHIBIOUS BASE		
DESERT OPERATIONS FACILITY	7,680	
MARITIME TRAINING FACILITY	4,900	
WATERFRONT MAINTENANCE & OPERATIONS FAC	8,440	
CORONADO NAVAL AMPHIBIOUS BASE		21,020
DEFENSE LEVEL ACTIVITIES		
DEFENSE LANGUAGE INSTITUTE - MONTEREY		
AUDIO/VISUAL INSTRUCTIONAL MEDIA CENTER	2,322	
OUTDOOR ATHLETIC FACILITIES	2,168	
PRINT PLANT	1,860	
DEFENSE LANGUAGE INSTITUTE - MONTEREY		6,350
DEFENSE LOGISTICS AGENCY		
DEFENSE DEPOT TRACY		
CONSOLIDATED MAINTENANCE FACILITY	1,700	
DEFENSE DEPOT TRACY		1,700

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
CALIFORNIA		
AIR NATIONAL GUARD		
FRESNO ANGB		
FIRE STATION	1,300	
MUNITIONS IGLOOS	2,600	
FRESNO ANGB		3,900
NAVY RESERVE		
MCRC CAMP PENDLETON		
AIRCRAFT MAINTENANCE HANGAR	8,100	
MCRC CAMP PENDLETON		8,100
NAR MIRAMAR, CA.		
AIRCRAFT START SYSTEM	1,440	
NAR MIRAMAR, CA.		1,440
NMCRC SAN DIEGO		
AIRCRAFT PARKING APRON	3,950	
NMCRC SAN DIEGO		3,950
**NAVY RESERVE		13,490
FAMILY HOUSING		
NAVY		
MARINE CORPS BASE CAMP PENDLETON		
NEW CONSTRUCTION (112)	[11,805]	
MARINE CORPS BASE CAMP PENDLETON FAMILY HOUSING		[11,805]
NAVAL STATION LONG BEACH		
NEW CONSTRUCTION (300)	[24,928]	
NAVAL STATION LONG BEACH FAMILY HOUSING		[24,928]
PACIFIC MISSILE TEST CENTER POINT MUGU		
NEW CONSTRUCTION (FAMILY HOUSING OFFICE)	[603]	
PACIFIC MISSILE TEST CENTER POINT MUGU FAMILY HOUSING		[603]
PUBLIC WORKS CENTER SAN DIEGO		
NEW CONSTRUCTION (300)	[31,880]	
PUBLIC WORKS CENTER SAN DIEGO FAMILY HOUSING		[31,880]
**NAVY FAMILY HOUSING		[69,216]
**CALIFORNIA		313,706
FAMILY HOUSING		[69,216]
COLORADO		
ARMY		
FORT CARSON		
AVIATION UNIT MAINTENANCE HANGAR	11,400	
TACTICAL EQUIPMENT SHOP	6,500	
TANK GUNNERY RANGE UPGRADE	5,600	
FORT CARSON		23,500
FALCON AIR FORCE BASE		
SATELLITE CONTROL CERTIFICATION FACILITY	1,450	
FALCON AIR FORCE BASE		1,450
**ARMY		24,950
AIR FORCE		
FALCON AFS		
MILSTAR COMMUNICATIONS GROUND TERMINAL	710	
FALCON AFS		710

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
COLORADO		
AIR FORCE		
PETERSON AFB		
ADD TO AND ALTER DORMITORY-PHASE I	2,700	
MILSTAR COMMUNICATIONS GROUND TERMINAL	1,350	
PETERSON AFB		4,050
**AIR FORCE		4,760
AIR FORCE RESERVE		
LOWRY AFB		
CIVIL ENGINEERING TRAINING FACILITY	900	
LOWRY AFB		900
**COLORADO		30,610
CONNECTICUT		
NAVY		
NEW LONDON NAVAL SUBMARINE BASE		
BACHELOR OFFICER QUARTERS MODERNIZATION	5,000	
QUAYWALL REPLACEMENT	9,150	
THAMES RIVER DREDGING	8,350	
NEW LONDON NAVAL SUBMARINE BASE		22,500
NEW LONDON NAVAL SUBMARINE SCHOOL		
OPERATIONAL TRAINER FACILITY	18,990	
NEW LONDON NAVAL SUBMARINE SCHOOL		18,990
**NAVY		41,490
DISTRICT OF COLUMBIA		
NAVY		
WASHINGTON NAVAL RESEARCH LABORATORY		
ELECTRO-OPTICS RESEARCH LABORATORY	9,850	
WASHINGTON NAVAL RESEARCH LABORATORY		9,850
DEFENSE MEDICAL SUPPORT ACTIVITY		
WALTER REED ARMY MEDICAL CENTER		
MAGNETIC RESONANCE IMAGING FACILITY	4,000	
WALTER REED ARMY MEDICAL CENTER		4,000
**DISTRICT OF COLUMBIA		13,850
FLORIDA		
NAVY		
JACKSONVILLE NAVAL AIR STATION		
ANTI-SUBMARINE WARFARE TRAINING FACILITY	2,810	
WASTEWATER SYSTEM IMPROVEMENTS	6,330	
JACKSONVILLE NAVAL AIR STATION		9,140
JACKSONVILLE NAVAL AVIATION DEPOT		
INDUSTRIAL WASTEWATER TREATMENT FACILITIES	14,670	
JACKSONVILLE NAVAL AVIATION DEPOT		14,670
KEY WEST NAVAL AIR STATION		
CARIBBEAN REGIONAL OPERATIONS CENTER	4,020	
EXPLOSIVE ORD DISPOSAL MOBILE UNIT FAC	3,010	
KEY WEST NAVAL AIR STATION		7,030
MAYPORT FLEET TRAINING CENTER		
FIRE FIGHTING TRAINING FACILITY	4,300	
MAYPORT FLEET TRAINING CENTER		4,300
MAYPORT NAVAL STATION		
POTABLE WATER SYSTEM IMPROVEMENTS	4,950	
MAYPORT NAVAL STATION		4,950

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
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DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
FLORIDA		
NAVY		
ORLANDO NAVAL TRAINING CENTER		
BARRACKS	10,960	
MESS HALL	7,070	
ORLANDO NAVAL TRAINING CENTER		18,030
PANAMA CITY NAVAL COASTAL SYSTEMS CENTER		
COMPUTATION AND ANALYSIS LABORATORY ADDN	4,330	
PANAMA CITY NAVAL COASTAL SYSTEMS CENTER		4,330
PENSACOLA NAVY PUBLC WORKS CENTER		
WATER AND SEWER PIPELINE SEPARATION	3,460	
PENSACOLA NAVY PUBLC WORKS CENTER		3,460
**NAVY		65,910
AIR FORCE		
AVON PARK RANGE		
DORMITORY	700	
AVON PARK RANGE		700
CAPE CANAVERAL AFS		
CHEMICAL TESTING LABORATORY	2,400	
CAPE CANAVERAL AFS		2,400
EGLIN AFB		
AIRCRAFT PARTS WAREHOUSE	2,800	
MISSILE MAINTENANCE FACILITY	1,900	
EGLIN AFB		4,700
HOMESTEAD AFB		
ALTER DORMITORIES	5,500	
JET FUEL STORAGE	2,400	
HOMESTEAD AFB		7,900
MACDILL AFB		
ADD TO USCENTCOM HEADQUARTERS	3,350	
UPGRADE RUNWAY	8,900	
MACDILL AFB		12,250
**AIR FORCE		27,950
DEFENSE MEDICAL SUPPORT ACTIVITY		
MACDILL AIR FORCE BASE		
HOSPITAL LIFE SAFETY UPGRADE	2,900	
MACDILL AIR FORCE BASE		2,900
SPECIAL OPERATIONS COMMAND		
EGLIN AFB		
AERIAL DELIVERY FACILITY	3,500	
IMPROVE BASE ROADS	1,500	
MOBILITY CENTER	3,550	
PHYSICAL FITNESS CENTER	3,200	
EGLIN AFB		11,750
DEFENSE LOGISTICS AGENCY		
DEF REUTIL AND MARKTNG OFC EGLIN AFB		
*COVERED STORAGE	2,850	
DEF REUTIL AND MARKTNG OFC EGLIN AFB		2,850
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(2,850)
ARMY NATIONAL GUARD		
BROOKVILLE		
ARMORY	858	
BROOKVILLE		858

* AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
FLORIDA		
ARMY NATIONAL GUARD		
TALLAHASSEE		
ARMORY ADDITION	721	
TALLAHASSEE		721
**ARMY NATIONAL GUARD		1,579
AIR NATIONAL GUARD		
CAMP BLANDING		
BASE SUPPLIES AND EQUIPMENT WAREHOUSE	1,100	
COMPOSITE GNRL SUPPORT AND TRNG FACILITY	1,800	
CAMP BLANDING		2,900
AIR FORCE RESERVE		
EGLIN AUX FIELD 3		
MEDICAL TRAINING FACILITY	1,600	
EGLIN AUX FIELD 3		1,600
HOMESTEAD AFB		
ADD FIRE PROTECTION-AIRCRAFT HANGAR	2,400	
HOMESTEAD AFB		2,400
**AIR FORCE RESERVE		4,000
**FLORIDA		119,839
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(2,850)
GEORGIA		
ARMY		
FORT BENNING		
INDOOR FIRING RANGE	2,930	
RECREATION CENTER	3,000	
TACTICAL EQUIPMENT SHOP	4,950	
FORT BENNING		10,880
FT STEWART/HUNTER AAF		
CHILD DEVELOPMENT CENTER	1,650	
FT STEWART/HUNTER AAF		1,650
**ARMY		12,530
NAVY		
ALBANY MARINE CORPS LOGISTICS BASE		
INDUSTRIAL WASTE TREATMENT PLANT IMPROVES	1,360	
ALBANY MARINE CORPS LOGISTICS BASE		1,360
KINGS BAY NAVAL SUBMARINE BASE		
BACHELOR ENLISTED QUARTERS	7,230	
EXPLOSIVES HANDLING WHARF	56,615	
SMALL ORDNANCE MAGAZINE	620	
TRIDENT TRAINING FACILITY ADDITION	2,210	
KINGS BAY NAVAL SUBMARINE BASE		66,675
**NAVY		68,035
AIR FORCE		
MOODY AFB		
ALTER DORMITORIES	4,400	
MOODY AFB		4,400
ROBINS AFB		
ADD TO/ALTER INTEGRATION SUPPORT FACILITY	8,300	
ADVANCED MICROELECTRONICS FACILITY	9,400	
COMBAT COMM EQUIPMENT MAINT FACILITY	3,500	
ROBINS AFB		21,200
**AIR FORCE		25,600

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
GEORGIA		
DEFENSE MEDICAL SUPPORT ACTIVITY		
FORT BENNING		
TROOP MEDICAL CLINIC REPLACEMENT	2,000	
FORT BENNING		2,000
SPECIAL OPERATIONS COMMAND		
FORT STEWART/HUNTER AAF		
SPECIAL OPERATIONS FORCES HEADQUARTERS	1,900	
TACTICAL EQUIPMENT SHOP	3,000	
FORT STEWART/HUNTER AAF		4,900
AIR NATIONAL GUARD		
HUNTER ANG SITE		
MOBILITY STORAGE WAREHOUSE	325	
HUNTER ANG SITE		325
ARMY RESERVE		
FORT GORDON		
ARMY RESERVE CENTER	9,534	
FORT GORDON		9,534
NAVY RESERVE		
NAS ATLANTA		
AVIONICS SHOP	2,800	
NAS ATLANTA		2,800
AIR FORCE RESERVE		
DOBBINS AFB		
READINESS ADDITION-14TH AF HEADQUARTERS	2,900	
DOBBINS AFB		2,900
**GEORGIA		128,624
HAWAII		
ARMY		
SCHOFIELD BARRACKS		
ARMY CONTINUING EDUCATION CENTER	9,700	
SCHOFIELD BARRACKS		9,700
FORT SHAFTER		
ACCESS ROADS - FORT SHAFTER	7,400	
FORT SHAFTER		7,400
**ARMY		17,100
NAVY		
KANEOHE BAY MARINE CORPS AIR STATION		
AIRCRAFT RINSE FACILITY	1,650	
KANEOHE BAY MARINE CORPS AIR STATION		1,650
LUALUALEI NAVAL MAGAZINE		
ELECTRICAL DISTRIBUTION LINES RELOCATION	1,660	
LUALUALEI NAVAL MAGAZINE		1,660
PEARL HARBOR COM OCEANOGRAPHIC SYS PACIFIC		
SURTASS SUPPORT CENTER	12,780	
PEARL HARBOR COM OCEANOGRAPHIC SYS PACIFIC		12,780
PEARL HARBOR NAVAL SUBMARINE BASE		
ELECTRICAL DISTRIBUTION SYSTEM IMPROVES	2,010	
PEARL HARBOR NAVAL SUBMARINE BASE		2,010
PEARL HARBOR NAVY PUBLIC WORKS CENTER		
AUTOMOTIVE VEHICLE MAINTENANCE SHOP	6,940	
PEARL HARBOR NAVY PUBLIC WORKS CENTER		6,940
**NAVY		25,040

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION --------------------PROJECT NAME---------------	PROJ COST ----------	TOTAL ----------
HAWAII		
AIR FORCE		
HICKAM AFB		
ADD TO CHILD DEVELOPMENT CENTER	770	
DORMITORY	6,100	
FIRE PROTECTION-MAINTENANCE FACILITY	2,250	
POL OPERATIONS FACILITY	1,000	
VEHICLE OPERATIONS/MAINTENANCE FACILITY	1,300	
HICKAM AFB		11,420
WHEELER AFB		
ADD TO AND ALTER GROUP OPERATIONS FAC	2,100	
COMBAT ARMS TRAINING AND MAINTENANCE FAC	1,400	
WHEELER AFB		3,500

**AIR FORCE		14,920
STRATEGIC DEFENSE INITIATIVE ORGANIZATION		
BARKING SANDS		
EXOATM DISCRIM EXPERIMENT	3,870	
BARKING SANDS		3,870
DEF COMMUNICATIONS AGNCY		
WHEELER AFB		
DCA-PAC COMMUNICATIONS CENTER EXPANSION	1,491	
WHEELER AFB		1,491
ARMY NATIONAL GUARD		
WAHIAWA		
ARMORY ADDITION	4,347	
WAHIAWA		4,347
ARMY RESERVE		
FORT SHAFTER		
ADDITION TO WAREHOUSE	1,300	
FORT SHAFTER		1,300
AIR FORCE RESERVE		
HICKAM AFB		
AERIAL PORT TRAINING FACILITY	1,200	
HICKAM AFB		1,200
FAMILY HOUSING		
ARMY		
VARIOUS OAHU		
NEW CONSTRUCTION (138)	[15,000]	
VARIOUS OAHU		
FAMILY HOUSING		[15,000]

**HAWAII		69,268
FAMILY HOUSING		[15,000]
IDAHO		
AIR FORCE		
MOUNTAIN HOME AFB		
ADD TO AND ALTER SQUADRON OPS FACILITY	1,350	
MOUNTAIN HOME AFB		1,350
ARMY RESERVE		
BOISE		
ARMY RESERVE CENTER W/MAINTENANCE FACILITY	7,227	
BOISE		7,227

**IDAHO		8,577

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ILLINOIS		
NAVY		
GREAT LAKES NAVAL TRAINING CENTER		
FIREMAN APPRENTICE TRAINING SCHOOL	2,170	
GREAT LAKES NAVAL TRAINING CENTER		2,170
GREAT LAKES PUBLIC WORKS CENTER		
ELECTRICAL DISTRIBUTION SYS IMPROVEMENTS	1,760	
STORM SEWER SYSTEM IMPROVEMENTS	700	
GREAT LAKES PUBLIC WORKS CENTER		2,460
**NAVY		4,630
AIR FORCE		
SCOTT AFB		
CHILD DEVELOPMENT CENTER	2,160	
SCOTT AFB		2,160
AIR NATIONAL GUARD		
CAPITAL MAP		
SPECIAL FUEL FACILITY	300	
CAPITAL MAP		300
GREATER PEORIA AIRPORT		
FIRE STATION	1,100	
FUEL SYSTEMS MAINT/CORROSION CNTRL FAC	2,000	
GREATER PEORIA AIRPORT		3,100
**AIR NATIONAL GUARD		3,400
NAVY RESERVE		
NMCRC PEORIA, IL.		
RESERVE CENTER ADDITION	800	
NMCRC PEORIA, IL.		800
NMCRC ROCK ISLAND		
RESERVE CENTER ADDITION	3,200	
NMCRC ROCK ISLAND		3,200
**NAVY RESERVE		4,000
AIR FORCE RESERVE		
CHICAGO-OHARE IAP		
SECURITY POLICE OPERATIONS FACILITY	1,080	
CHICAGO-OHARE IAP		1,080
**ILLINOIS		15,270
INDIANA		
ARMY		
FORT BENJAMIN HARRISON		
FIRE STATION	1,300	
LEARNING RESEARCH CENTER	4,300	
FORT BENJAMIN HARRISON		5,600
NAVY		
CRANE NAVAL WEAPONS SUPPORT CENTER		
ELECTRONICS COMMUNICATIONS MAINT SHOP	7,700	
MECHANIZED MATERIALS MANAGEMENT FACILITY	4,170	
TEST AND EVALUATION FACILITY	1,650	
CRANE NAVAL WEAPONS SUPPORT CENTER		13,520
ARMY NATIONAL GUARD		
CAMP ATTERBURY		
RANGE, MODIFIED RECORD FIRE(RETS	1,100	
CAMP ATTERBURY		1,100

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
INDIANA		
AIR NATIONAL GUARD		
HULMAN FIELD		
POL OPS AND LABORATORY	350	
HULMAN FIELD		350
FT WAYNE MAP		
SMALL ARMS RANGE	400	
FT WAYNE MAP		400
**AIR NATIONAL GUARD		750
NAVY RESERVE		
NRC TERRA HAUTE, IN.		
RESERVE CENTER ADDITION	620	
NRC TERRA HAUTE, IN.		620
**INDIANA		21,590
IOWA		
ARMY NATIONAL GUARD		
DENISON		
ARMORY	989	
DENISON		989
KANSAS		
ARMY		
FORT LEAVENWORTH		
GENERAL INSTRUCTION BUILDING	34,000	
FORT LEAVENWORTH		34,000
FORT RILEY		
MULTI-PURPOSE MACHINE GUN RANGE	2,700	
TACTICAL EQUIPMENT SHOP	12,200	
FORT RILEY		14,900
**ARMY		48,900
DEFENSE MEDICAL SUPPORT ACTIVITY		
FORT RILEY		
TROOP MEDICAL CLINIC REPLACEMENT	1,050	
FORT RILEY		1,050
ARMY NATIONAL GUARD		
IOLA		
ORGANIZATIONAL MAINTENANCE SHOP 2 ADD	399	
IOLA		399
NICKELL BARRACKS		
TRNG SITE, REGIONAL MAINTENANCE	1,667	
NICKELL BARRACKS		1,667
**ARMY NATIONAL GUARD		2,066
AIR FORCE RESERVE		
MCCONNELL AFB		
CIVIL ENGINEERING TRAINING FACILITY	1,000	
MCCONNELL AFB		1,000
**KANSAS		53,016
KENTUCKY		
ARMY		
FORT CAMPBELL		
MACHINE GUN TRANSITION RANGE	1,050	

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ACTIVE, GUARD AND RESERVE FORCES INSIDE THE UNITED STATES ($ THOUSANDS)

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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
KENTUCKY		
ARMY		
FORT CAMPBELL		
MODIFIED RECORD FIRE RANGE	1,250	
FORT CAMPBELL		2,300
FORT KNOX		
AUTOMATED RECORD FIRE RANGE	2,800	
MULTI-PURPOSE RANGE COMPLEX - HEAVY	22,600	
FORT KNOX		25,400
**ARMY		27,700
NAVY		
LOUISVILLE NAVAL ORDNANCE STATION		
PHALANX SHOP MODERNIZATION	5,660	
LOUISVILLE NAVAL ORDNANCE STATION		5,660
**KENTUCKY		33,360
LOUISIANA		
AIR FORCE		
BARKSDALE AFB		
ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY	1,600	
MUNITIONS SUPPORT EQUIPMENT STORAGE FAC	630	
PEACEKEEPER-ADD TO COMMUNICATIONS FAC	730	
PEACEKEEPER-ADD/ALTER INTEG MAINT FAC	2,150	
PEACEKEEPER-GARRISON FACILITIES	56,150	
PEACEKEEPER-MISSILE OPS MAINT FACILITY	3,050	
PEACEKEEPER-ROAD RAILROAD AND UTILITIES	7,600	
PEACEKEEPER-TRAINING TRAIN SHELTER	2,800	
BARKSDALE AFB		74,710
ARMY NATIONAL GUARD		
BOGALUSA		
OMS	783	
BOGALUSA		783
CAMP BEAUREGARD		
OMS4	680	
CAMP BEAUREGARD		680
**ARMY NATIONAL GUARD		1,463
ARMY RESERVE		
LAKE CHARLES		
ADD/ALT ARMY RESERVE CTR W/MAINTENANCE FAC	1,883	
LAKE CHARLES		1,883
NAVY RESERVE		
NAVAL AIR STATION NEW ORLEANS		
AVIONICS SHOP	3,200	
NAVAL AIR STATION NEW ORLEANS		3,200
**LOUISIANA		81,256
MAINE		
NAVY		
KITTERY PORTSMOUTH NAVAL SHIPYARD		
DRY DOCK MODERNIZATION AND COVER	38,182	
KITTERY PORTSMOUTH NAVAL SHIPYARD		38,182
AIR FORCE		
BANGOR		
SQUADRON SUPPORT FACILITY	970	
BANGOR		970

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ACTIVE, GUARD AND RESERVE FORCES
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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
MAINE		
AIR FORCE		
LORING AFB		
MUNITIONS SUPPORT EQUIPMENT STORAGE FAC	830	
LORING AFB		830
**AIR FORCE		1,800
ARMY NATIONAL GUARD		
BANGOR		
ARMORY AFRC	3,058	
BANGOR		3,058
AIR NATIONAL GUARD		
BANGOR IAP		
FIRE SUPPRESSION SYSTEM	1,350	
BANGOR IAP		1,350
ARMY RESERVE		
BANGOR		
ARMED FORCES RESERVE CENTER	1,138	
BANGOR		1,138
NAVY RESERVE		
AFRC BANGOR		
RESERVE TRAINING BUILDING	1,815	
AFRC BANGOR		1,815
**MAINE		47,343
MARYLAND		
ARMY		
ABERDEEN PROVING GROUND		
RELOCATE/MODERNIZE FIRE BARRICADES	10,400	
SECURITY UPGRADE	1,700	
TOXICOLOGY RESEARCH FACILITY	33,000	
ABERDEEN PROVING GROUND		45,100
FORT DETRICK		
STORAGE FACILITY ADDITION	530	
FORT DETRICK		530
**ARMY		45,630
NAVY		
BETHESDA NATIONAL NAVAL MEDICAL CENTER		
BACHELOR ENLISTED QUARTERS	9,040	
BETHESDA NATIONAL NAVAL MEDICAL CENTER		9,040
INDIAN HEAD NAVAL ORDNANCE STATION		
INDUSTRIAL WASTEWATER TREATMENT FACILITIES	6,430	
INDIAN HEAD NAVAL ORDNANCE STATION		6,430
PATUXENT RIVER NAVAL AIR TEST CENTER		
SECURITY IMPROVEMENTS	3,010	
TEST PILOT SCHOOL	6,030	
PATUXENT RIVER NAVAL AIR TEST CENTER		9,040
PATUXENT RIVER NAVAL HOSPITAL		
AVIATION PHYSIOLOGY TRAINING FACILITY	2,510	
PATUXENT RIVER NAVAL HOSPITAL		2,510
ST INIGOES NAVAL ELECTRONIC SYS ENGR ACT		
FACSFAC ELECTRONIC SYSTEMS INTEGRATION	4,020	
ST INIGOES NAVAL ELECTRONIC SYS ENGR ACT		4,020

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
MARYLAND		
NAVY		
SUITLAND NAVAL INTELLIGENCE COMMAND HDQTRS		
HEADQUARTERS BUILDING (INCREMENT II)	55,048	
SUITLAND NAVAL INTELLIGENCE COMMAND HDQTRS		55,048
**NAVY		86,088
AIR FORCE		
ANDREWS AFB		
ADD TO AND ALTER COMBAT ARMS TRNG FAC	1,300	
FIRE/CRASH RESCUE STATION	1,750	
ANDREWS AFB		3,050
FORT GEORGE MEADE		
DEFENSE COURIER STATION	1,800	
FORT GEORGE MEADE		1,800
**AIR FORCE		4,850
NATIONAL SECURITY AGENCY		
FORT MEADE		
BLDG 9805 ADDITION	3,425	
LOW VOLT POWER UPGRADE	8,221	
OPS 2A COOLING TOWER	1,800	
SUBSTATION 1 UPGRADE	6,025	
FORT MEADE		19,471
DEFENSE LOGISTICS AGENCY		
DEF REUTILIZATION & MKTG OFC FT MEADE		
COVERED STORAGE	9,500	
DEF REUTILIZATION & MKTG OFC FT MEADE		9,500
UNI SVC UNIV HEALTH SCI		
USUHS		
COMPLETE CONTRUCTION OF ANIMAL ROOMS	800	
USUHS		800
AIR NATIONAL GUARD		
ANDREWS AFB		
SPECIAL FUEL FACILITY	300	
ANDREWS AFB		300
GLENN L MARTIN AIRPORT		
ALTER COMPOSITE SUPPORT FACILITY	600	
GLENN L MARTIN AIRPORT		600
**AIR NATIONAL GUARD		900
**MARYLAND		167,239
MASSACHUSETTS		
AIR FORCE		
HANSCOM AFB		
ELECTROMAGNETIC TECHNOLOGY RSCH LAB	3,800	
HANSCOM AFB		3,800
NAVY RESERVE		
NAVAL AIR STATION SOUTH WEYMOUTH		
FIRE STATION	780	
NAVAL AIR STATION SOUTH WEYMOUTH		780
**MASSACHUSETTS		4,580
MICHIGAN		
AIR FORCE		
KI SAWYER AFB		
CONTROL TOWER	2,700	
KI SAWYER AFB		2,700

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ACTIVE, GUARD AND RESERVE FORCES
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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
MICHIGAN		
AIR FORCE		
WURTSMITH AFB		
ADD TO AND ALT CHILD DEVELOPMENT CENTER	960	
WURTSMITH AFB		960
**AIR FORCE		3,660
ARMY NATIONAL GUARD		
WAYNE COUNTY		
ARMORY	2,634	
ORGANIZATIONAL MAINTENANCE SHOP6	470	
WAYNE COUNTY		3,104
AIR NATIONAL GUARD		
SELFRIDGE ANGB		
ADD TO AND ALTER AVIONICS SHOP	650	
ADD TO AND ALTER PRECISION MEAS EQUIP LAB	600	
ADD TO MUNITIONS MAINT AND STORAGE FAC	640	
SELFRIDGE ANGB		1,890
AIR FORCE RESERVE		
SELFRIDGE ANGB		
ADD/ALTER FUEL SYSTEMS MAINT DOCK	650	
AERIAL PORT TRAINING FACILITY	1,850	
SELFRIDGE ANGB		2,500
**MICHIGAN		11,154
MINNESOTA		
ARMY NATIONAL GUARD		
BROOKLYN PARK		
ARMORY	1,864	
BROOKLYN PARK		1,864
ARMY RESERVE		
WALKER		
ARMY RESERVE CENTER W/MAINTENANCE FACILITY	2,159	
WALKER		2,159
**MINNESOTA		4,023
MISSISSIPPI		
NAVY		
GULFPORT NAVAL CONSTRUCTION TRAINING CTR		
APPLIED INSTRUCTION BUILDING	1,170	
BARRACKS	7,540	
GULFPORT NAVAL CONSTRUCTION TRAINING CTR		8,710
AIR FORCE		
COLUMBUS AFB		
ADD TO AND ALTER FLIGHT SIMULATOR	400	
COLUMBUS AFB		400
AIR NATIONAL GUARD		
GULFPORT		
ADD TO AND ALT AGE VEHICLE MAINT FAC	1,150	
ALTER BASE SUPPLY WAREHOUSE	250	
GULFPORT		1,400
ARMY RESERVE		
VICKSBURG		
ARMY RESERVE CENTER W/MAINTENANCE FACILITY	6,978	
VICKSBURG		6,978

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ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
MISSISSIPPI		
AIR FORCE RESERVE		
KEESLER AFB		
MEDICAL TRAINING FACILITY	600	
KEESLER AFB		600
**MISSISSIPPI		18,088
MISSOURI		
ARMY		
FORT LEONARD WOOD		
APPLIED INSTRUCTION FACILITY	900	
PHYSICAL FITNESS TRAINING CENTER	8,800	
FORT LEONARD WOOD		9,700
AIR FORCE		
WHITEMAN AFB		
ADD TO AND ALT PHYSICAL FITNESS CENTER	3,600	
B2 AVIONICS SHOP	5,000	
B2-ACFT ACCESS APRON AND TAXIWAY UPGRADE	7,900	
B2-ADD TO AND ALTER CHILD DEV CTR	750	
B2-ADD TO AND ALTER UTILITIES	9,400	
B2-ADD TO/ALT BASE LIBRARY/ED CTR	3,500	
B2-ADD/ALT CHAPEL COMMUNITY ACTIVITY CTR	1,700	
B2-AIRCRAFT MAINTENANCE DOCKS	8,700	
B2-DEFENSE ACCESS ROADS	9,000	
B2-DORMITORY	6,500	
B2-HAZARDOUS MATERIAL STORAGE	1,600	
B2-HYDRANT FUEL/ACFT SUPPORT SYSTEMS	12,000	
B2-IMPACT AID FUNDING	1,000	
B2-MUNITIONS CONVOY ROADS	6,000	
B2-SURVIVAL EQUIPMENT SHOP	1,000	
B2-UPGRADE BASE ROADS	4.000	
B2-WEAPONS RECEIVING AND PROCESSING CENTER	1,700	
B2-WEAPONS STORAGE AREA SECURITY FENCING	5,900	
B2-WEAPONS STORAGE AREA SUPPLY WAREHOUSE	800	
B2-WEAPONS STORAGE IGLOOS	5,600	
FIRE PROTECTION SYSTEM	750	
WHITEMAN AFB		96,400
AIR NATIONAL GUARD		
ROSECRANS MEMORIAL AIRPORT		
ADD TO WELDING SHOP	250	
ROSECRANS MEMORIAL AIRPORT		250
ST LOUIS-LAMBERT FIELD		
ALTER ENGINE SHOP	400	
ST LOUIS-LAMBERT FIELD		400
**AIR NATIONAL GUARD		650
**MISSOURI		106,750
NEBRASKA		
AIR FORCE		
OFFUTT AFB		
ALT PHYSICAL FITNESS CTR AND FIELD HOUSE	2,600	
OFFUTT AFB		2,600
AIR FORCE RESERVE		
OFFUTT AFB		
ADD/ALTER CIVIL ENGINEERING FACILITY	800	
OFFUTT AFB		800
**NEBRASKA		3,400

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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

       ACTIVE, GUARD AND RESERVE FORCES        DATA AS OF 29 JAN 1990
           INSIDE THE UNITED STATES
               ($ THOUSANDS)
STATE/COMP./INSTALLATION                          PROJ COST        TOTAL
-------------------PROJECT NAME---------------  ----------   ----------
NEVADA
  AIR FORCE
    INDIAN SPRINGS
     MUNITIONS LOADING/REVETMENTS-PH II               2,550
      INDIAN SPRINGS                                                2,550

    NELLIS AFB
     ADD TO AND ALT ELECTRICAL DIST SYSTEM            5,200
     BASE SECURITY FENCING                              270
     MAINTENANCE HANGAR                               5,000
     PARARESCUE FACILITY                              1,050
     SQUADRON OPERATIONS FACILITY                     1,000
      NELLIS AFB                                                   12,520
                                                               ----------
  **AIR FORCE                                                      15,070

  DEFENSE MEDICAL SUPPORT ACTIVITY
    NELLIS AIR FORCE BASE
     CONSOLIDATED MEDICAL FACILITY REPLACEMENT       56,000
      NELLIS AIR FORCE BASE                                        56,000

  ARMY NATIONAL GUARD
    CARSON CITY
     CSMS                                             3,048
     OMS                                                676
      CARSON CITY                                                   3,724

***FAMILY HOUSING***

  AIR FORCE
    NELLIS AFB
     HOUSING OFFICE                                   [235]
      NELLIS AFB
        FAMILY HOUSING                                              [235]
                                                               ----------
**NEVADA                                                           74,794
        FAMILY HOUSING                                              [235]


NEW JERSEY
  NAVY
    EARLE NAVAL WEAPONS STATION
     TRESTLES REPLACEMENT (PHASE I)                  20,100
      EARLE NAVAL WEAPONS STATION                                  20,100

  AIR FORCE
    MCGUIRE AFB
     ADD TO FLIGHT SIMULATOR FACILITY                 3,000
     ALTER DORMITORIES                                4,850
      MCGUIRE AFB                                                   7,850

  AIR NATIONAL GUARD
    ATLANTIC CITY
     BASE ENTRY COMPLEX                                 400
      ATLANTIC CITY                                                   400

    MCGUIRE AFB
     ALTER AIRCRAFT MAINTENANCE SHOP                    520
      MCGUIRE AFB                                                     520
                                                               ----------
  **AIR NATIONAL GUARD                                                920
                                                               ----------
**NEW JERSEY                                                       28,870


NEW MEXICO
  AIR FORCE
    HOLLOMAN AFB
     ALTER DORMITORY                                  2,700
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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
NEW MEXICO		
AIR FORCE		
HOLLOMAN AFB		
SECURITY IMPROVEMENTS	310	
HOLLOMAN AFB		3,010
KIRTLAND AFB		
ADD TO AND ALTER HELICOPTER TRAINING AREA	2,650	
ALTER DORMITORIES	1,550	
KIRTLAND AFB		4,200
**AIR FORCE		7,210
DEFENSE NUCLEAR AGENCY		
WHITE SANDS MISSILE RANGE		
LARGE BLAST/THERMAL SIMULATOR	64,800	
WHITE SANDS MISSILE RANGE		64,800
FAMILY HOUSING		
AIR FORCE		
HOLLOMAN AFB		
HOUSING MAINTENANCE FACILITY	[219]	
HOLLOMAN AFB FAMILY HOUSING		[219]
**NEW MEXICO FAMILY HOUSING		72,010 [219]
NEW YORK		
ARMY		
FORT DRUM		
CENTRAL WASH FACILITY	8,800	
GENERAL INSTRUCTION BUILDING	608	
FORT DRUM		9,408
ARMY NATIONAL GUARD		
GUILDERLAND		
RANGE, MAC	800	
GUILDERLAND		800
AIR NATIONAL GUARD		
NIAGARA FALLS IAP		
MUNITION MAINTENANCE AND STORAGE CMPLX	4,300	
NIAGARA FALLS IAP		4,300
SUFFOLK COUNTY AIRPORT		
FIRE DETECTION/SUPPRESSION SYSTEM	1,450	
SUFFOLK COUNTY AIRPORT		1,450
**AIR NATIONAL GUARD		5,750
ARMY RESERVE		
BRONX		
ADD/ALT ARMY RESERVE CTR/MAINTENANCE FAC	8,099	
BRONX		8,099
AIR FORCE RESERVE		
NIAGARA FALLS IAP		
MUNITIONS STORAGE (W/ANG)	200	
NIAGARA FALLS IAP		200
FAMILY HOUSING		
NAVY		
NAVAL STATION NEW YORK		
NEW CONSTRUCTION (150)	[19,692]	
NAVAL STATION NEW YORK FAMILY HOUSING		[19,692]
**NEW YORK FAMILY HOUSING		24,257 [19,692]

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
NORTH CAROLINA		
ARMY		
FORT BRAGG		
BATTALION HEADQUARTERS	1,850	
INSTALLATION MAP DEPOT	1,750	
MAINTENANCE FACILITY (PHASE I)	31,800	
TACTICAL EQUIPMENT SHOP	11,600	
TACTICAL EQUIPMENT SHOP	7,400	
FORT BRAGG		54,400
NAVY		
CAMP LEJEUNE MARINE CORPS BASE		
ELECTRONICS COMMUNICATIONS MAINT SHOPS	4,120	
FIELD MAINTENANCE COMPLEX	21,000	
MECHANICS TRAINING BUILDING-INCREMENT III	4,050	
CAMP LEJEUNE MARINE CORPS BASE		29,170
CHERRY POINT MARINE CORPS AIR STATION		
REGIMENTAL GROUP HEADQUARTERS	1,950	
WATER TREATMENT FACILITY	12,000	
CHERRY POINT MARINE CORPS AIR STATION		13,950
**NAVY		43,120
AIR FORCE		
SEYMOUR JOHNSON AFB		
BASE FORMS AND PUBLICATIONS WAREHOUSE	600	
FIRE PROTECTION SYSTEMS	850	
REPAIR TAXIWAY	1,052	
SEYMOUR JOHNSON AFB		2,502
DEFENSE MEDICAL SUPPORT ACTIVITY		
CAMP LEJEUNE MARINE CORPS BASE		
COURTHOUSE BAY MEDICAL/DENTAL CLINIC	3,200	
CAMP LEJEUNE MARINE CORPS BASE		3,200
ARMY NATIONAL GUARD		
CLINTON		
ARMORY	1,603	
CLINTON		1,603
AIR NATIONAL GUARD		
DOUGLAS MAP		
ADD TO AND ALTER SQUADRON OPERATIONS	400	
DOUGLAS MAP		400
AIR FORCE RESERVE		
POPE AFB		
CIVIL ENGINEERING TRAINING FACILITY	790	
POPE AFB		790
**NORTH CAROLINA		106,015
NORTH DAKOTA		
AIR FORCE		
GRAND FORKS AFB		
ADD TO AND ALT MISSILE MAINT AND SPT FAC	4,700	
ADD TO AND ALT TRANSPORTATION COMPLEX	4,150	
PEACEKEEPER-ADD TO AND ALT COMM MAINT FAC	50,000	
PEACEKEEPER-ADD TO COMMUNICATIONS FAC	800	
PEACEKEEPER-LAND ACQUISITION	1,000	
PEACEKEEPER-MISSILE OPS/INTEG MAINT FAC	5,500	
PEACEKEEPER-ROAD RAILROAD AND UTILITIES	7,900	
PEACEKEEPER-TRAINING TRAIN SHELTER	3,000	
GRAND FORKS AFB		77,050

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
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($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
NORTH DAKOTA		
AIR FORCE		
MINOT AFB		
ADD TO AND ALTER CHILD DEVELOPMENT CTR	3,600	
MINOT AFB		3,600
**AIR FORCE		80,650
ARMY NATIONAL GUARD		
CAMP GRAFTON (DEVILS LAKE)		
COMBINED SUPPORT MAINTENANCE SHOP ADD	1,595	
CAMP GRAFTON (DEVILS LAKE)		1,595
AIR NATIONAL GUARD		
HECTOR FIELD		
ALTER MAINTENANCE HANGAR	1,400	
MUNITION MAINT AND STORAGE COMPLEX	2,600	
HECTOR FIELD		4,000
**NORTH DAKOTA		86,245
OHIO		
AIR FORCE		
NEWARK AFB		
PEACEKEEPER-GUIDANCE AND CONTROL FAC	5,100	
NEWARK AFB		5,100
WRIGHT-PATTERSON AFB		
AFIT PROFESSIONAL AND TECH EDUC FAC	5,500	
FOREIGN MATERIAL EXPLOITATION FACILITY	4,650	
WRIGHT-PATTERSON AFB		10,150
**AIR FORCE		15,250
DEFENSE LOGISTICS AGENCY		
DEFENSE CONSTRUCTION SUPPLY CENTER		
*BULK STORAGE WAREHOUSE	13,530	
DEFENSE CONSTRUCTION SUPPLY CENTER		13,530
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(13,530)
AIR NATIONAL GUARD		
RICKENBACKER ANGB		
ALTER FUEL SYSTEM MAINTENANCE DOCK	400	
POWER CHECK PAD WORK STATION SUPPRESSOR	700	
RICKENBACKER ANGB		1,100
ARMY RESERVE		
KENTON		
ADD/ALT ARMY RESERVE CTR/MAINTENANCE FAC	2,804	
KENTON		2,804
NAVY RESERVE		
NMCRC CINCINNATI		
RESERVE CENTER ADDITION	1,200	
NMCRC CINCINNATI		1,200
AIR FORCE RESERVE		
RICKENBACKER ANGB		
ALTER FUEL MAINTENANCE DOCK	500	
RICKENBACKER ANGB		500
WRIGHT-PATTERSON AFB		
UPGRADE HANGARS/SHOPS	3,781	
WRIGHT-PATTERSON AFB		3,781
**AIR FORCE RESERVE		4,281
**OHIO		38,165
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(13,530)

* AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
OKLAHOMA		
ARMY		
FORT SILL		
COMMUNICATIONS-ELECTRONICS LAB ADDN	3,550	
MODERNIZE SEWAGE TREATMENT PLANT	21,600	
FORT SILL		25,150
AIR FORCE		
ALTUS AFB		
ALTER FLIGHT SIMULATOR FACILITY	800	
C17 SHORT FIELD ASSAULT STRIP	9,000	
C17-ADD TO FLIGHT SIMULATOR FACILITY	7,100	
C17-FIELD TRAINING FACILITY	4,800	
ALTUS AFB		21,700
TINKER AFB		
AWACS AIRCRAFT FIRE PROTECTION	2,750	
B2-ADD TO AND ALT COMPOSITE REPAIR FAC	5,700	
B2-ADD TO AND ALTER DEPOT MAINT HANGAR	12,100	
B2-ADD TO HANGAR FIRE PROTECTION SYS	3,600	
CONSOLIDATED FUEL CONTROL TEST FAC/LAND AQ	13,600	
LOGISTICAL SYSTEMS OPS CNTR/LAND ACQ	13,200	
SYSTEMS ENGINEERING FACILITY	650	
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	3,500	
TINKER AFB		55,100
VANCE AFB		
ADD TO AND ALTER FLIGHT SIMULATOR	400	
VANCE AFB		400
**AIR FORCE		77,200
DEFENSE MEDICAL SUPPORT ACTIVITY		
ALTUS AIR FORCE BASE		
MEDICAL LOGISTICS FACILITY	500	
ALTUS AIR FORCE BASE		500
FORT SILL		
HOSPITAL RPMT PHASE 111	10,400	
FORT SILL		10,400
**DEFENSE MEDICAL SUPPORT ACTIVITY		10,900
AIR NATIONAL GUARD		
WILL ROGERS WORLD AIRPORT		
BCE MOBILITY STORAGE WAREHOUSE	400	
WILL ROGERS WORLD AIRPORT		400
**OKLAHOMA		113,650
OREGON		
ARMY NATIONAL GUARD		
CAMP RILEA		
RANGE, ARF (RETS)	913	
TRNG SITE,MEDICAL TROOP TRAINING	312	
CAMP RILEA		1,225
REDMOND		
RANGE, 25 METER BAFFLED	971	
REDMOND		971
**ARMY NATIONAL GUARD		2,196
PENNSYLVANIA		
ARMY		
CARLISLE BARRACKS		
CENTER FOR STRATEGIC WARGAMING	25,000	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
PENNSYLVANIA		
ARMY		
CARLISLE BARRACKS		
CHILD DEVELOPMENT CENTER	1,200	
CARLISLE BARRACKS		26,200
FORT INDIANTOWN GAP		
AMMUNITION SUPPLY POINT	1,350	
COLD STORAGE WAREHOUSE	5,000	
FORT INDIANTOWN GAP		6,350
TOBYHANNA ARMY DEPOT		
SATELLITE SYSTEMS MAINTENANCE FACILITY	6,800	
TOBYHANNA ARMY DEPOT		6,800
**ARMY		39,350
NAVY		
WARMINSTER NAVAL AIR DEVELOPMENT CENTER		
AIRCRAFT TECHNOLOGIES LABORATORY	10,770	
WARMINSTER NAVAL AIR DEVELOPMENT CENTER		10,770
DEFENSE MEDICAL SUPPORT ACTIVITY		
PHILADELPHIA NAVAL SHIPYARD		
MEDICAL/DENTAL/OCCUPATIONAL HEALTH CLINIC	11,600	
PHILADELPHIA NAVAL SHIPYARD		11,600
SPECIAL OPERATIONS COMMAND		
NORRISTOWN		
ADD/ALT ARMY RES CTR/MAINTENANCE FACILITY	2,598	
NORRISTOWN		2,598
DEFENSE LOGISTICS AGENCY		
DEFENSE DEPOT MECHANICSBURG		
TWO GENERAL PURPOSE WAREHOUSES	15,100	
UPGRADE IPE BUILDING	3,000	
DEFENSE DEPOT MECHANICSBURG		18,100
DEFENSE PERSONNEL SUPPORT CENTER		
*DEMOLISH BUILDING M5/PARKING AREA	3,940	
DEFENSE PERSONNEL SUPPORT CENTER		3,940
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,940)
**DEFENSE LOGISTICS AGENCY		22,040
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,940)
AIR NATIONAL GUARD		
GREATER PITTSBURGH IAP		
VEHICLE STORAGE FACILITY	300	
GREATER PITTSBURGH IAP		300
WILLOW GROVE NAS		
MEDICAL TRAINING FACILITY	1,247	
WILLOW GROVE NAS		1,247
**AIR NATIONAL GUARD		1,547
ARMY RESERVE		
NEW CASTLE		
ADD/ALT ARMY RESERVE CTR/MAINTENANCE FAC	1,418	
NEW CASTLE		1,418
NAVY RESERVE		
AFRC HARRISBURG PA.		
RESERVE CENTER ADDITION	2,400	
AFRC HARRISBURG PA.		2,400

* AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
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($ THOUSANDS)

STATE/COMP./INSTALLATION -------------------PROJECT NAME---------------	PROJ COST	TOTAL
PENNSYLVANIA		
NAVY RESERVE		
NAS WILLOW GROVE		
GROUND SUPPORT EQUIPMENT SHED	1,220	
NAS WILLOW GROVE		1,220

**NAVY RESERVE		3,620
AIR FORCE RESERVE		
GREATER PITTSBURGH IAP		
MEDICAL TRAINING FACILITY	1,900	
GREATER PITTSBURGH IAP		1,900
WILLOW GROVE ARF		
MEDICAL TRAINING FACILITY (W/ANG)	1,250	
WILLOW GROVE ARF		1,250

**AIR FORCE RESERVE		3,150

**PENNSYLVANIA		96,093
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,940)
RHODE ISLAND		
NAVY		
NEWPORT NAVAL EDUCATION & TRAINING CENTER		
STEAM DISTRIBUTION SYSTEM UPGRADE	6,230	
NEWPORT NAVAL EDUCATION & TRAINING CENTER		6,230
SOUTH CAROLINA		
ARMY		
FORT JACKSON		
AUTOMATED RECORD FIRE RANGE	1,600	
FORT JACKSON		1,600
NAVY		
BEAUFORT MARINE CORPS AIR STATION		
BACHELOR ENLISTED QUARTERS	6,700	
BEAUFORT MARINE CORPS AIR STATION		6,700
CHARLESTON NAVAL STATION		
PAY & PERSONNEL SUPPORT OFFICE ADDITION	720	
CHARLESTON NAVAL STATION		720
CHARLESTON NAVAL WEAPONS STATION		
MISSILE MAGAZINE	1,910	
PROPULSION TRAINING FACILITY	25,120	
CHARLESTON NAVAL WEAPONS STATION		27,030
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT		
CLOTHING ISSUE BUILDING	3,410	
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT		3,410

**NAVY		37,860
AIR FORCE		
CHARLESTON AFB		
C17-ALTER AIRCRAFT MAINTENANCE FACS	7,900	
C17-ALTER ENGINE INSP AND REPAIR FAC	840	
COMMAND POST/BASE OPERATIONS FACILITY	2,250	
PARACHUTE DRYING TOWER	500	
SECURITY POLICE OPERATIONS FACILITY	1,550	
VEHICLE OPERATIONS FACILITY	1,050	
CHARLESTON AFB		14,090
DEFENSE LOGISTICS AGENCY		
DEF REUTIL AND MKGT OFC FT JACKSON		
OPEN STORAGE IMPROVEMENTS	500	
DEF REUTIL AND MKGT OFC FT JACKSON		500

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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

      ACTIVE, GUARD AND RESERVE FORCES        DATA AS OF 29 JAN 1990
          INSIDE THE UNITED STATES
             ($ THOUSANDS)
STATE/COMP./INSTALLATION                               PROJ COST       TOTAL
------------------PROJECT NAME---------------        ----------   ----------
SOUTH CAROLINA
  AIR NATIONAL GUARD
    MCENTIRE
     ECM MAINTENANCE AND STORAGE                            550
      MCENTIRE                                                           550

***FAMILY HOUSING***

  AIR FORCE
    CHARLESTON AFB
     HOUSING OFFICE AND MAINTENANCE FACILITY              [592]
      CHARLESTON AFB
        FAMILY HOUSING                                                 [592]

    MYRTLE BEACH AFB
     HOUSING OFFICE                                       [258]
      MYRTLE BEACH AFB
        FAMILY HOUSING                                                 [258]
                                                                 ----------
  **AIR FORCE
        FAMILY HOUSING                                                 [850]
                                                                 ----------
**SOUTH CAROLINA                                                      54,600
        FAMILY HOUSING                                                 [850]


SOUTH DAKOTA
  AIR FORCE
    ELLSWORTH AFB
     UPGRADE ELEC DISTRIBUTION SYSTEM                    13,150
      ELLSWORTH AFB                                                   13,150

  ARMY NATIONAL GUARD
    MITCHELL
     ARMORY,ADD/ALT                                         954
      MITCHELL                                                           954

***FAMILY HOUSING***

  AIR FORCE
    ELLSWORTH AFB
     HOUSING OFFICE                                       [313]
      ELLSWORTH AFB
        FAMILY HOUSING                                                 [313]
                                                                 ----------
**SOUTH DAKOTA                                                        14,104
        FAMILY HOUSING                                                 [313]


TENNESSEE
  AIR FORCE
    ARNOLD ENGINEERING DEV CENTER
     LARGE ROCKET TEST FACILITY (J-6)-PH III            109,300
      ARNOLD ENGINEERING DEV CENTER                                  109,300

  DEFENSE LOGISTICS AGENCY
    DEFENSE DEPOT MEMPHIS
     BULK RECEIVING FACILITY                              1,500
     FLAMMABLE STORAGE FACILITY                           1,500
     GENERAL PURPOSE WAREHOUSE                           11,900
      DEFENSE DEPOT MEMPHIS                                           14,900

  ARMY NATIONAL GUARD
    WINCHESTER
     ARMORY                                               1,023
      WINCHESTER                                                       1,023
                                                                 ----------
**TENNESSEE                                                          125,223
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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES — DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
TEXAS		
ARMY		
FORT HOOD		
BARRACKS MODERNIZATION	11,000	
CONSOLIDATED MAINTENANCE FACILITY	22,700	
MODIFIED RECORD FIRE RANGE	1,650	
RANGE CONTROL FACILITY	4,400	
RANGE MODERNIZATION	3,050	
REPLACE VEHICULAR BRIDGES	469	
FORT HOOD		43,269
FORT SAM HOUSTON		
CONSOLIDATED MAINTENANCE FACILITY	13,200	
MEDICAL RESEARCH LABORATORY	13,400	
PHYSICAL FITNESS TRAINING CENTER	7,100	
FORT SAM HOUSTON		33,700
**ARMY		76,969
NAVY		
LACKLAND AFB NAVAL TECHNICAL TRNG CTR DET		
BACHELOR ENLISTED QUARTERS	11,850	
LACKLAND AFB NAVAL TECHNICAL TRNG CTR DET		11,850
AIR FORCE		
BROOKS AFB		
BASE ENGINEER COMPLEX	4,100	
BROOKS AFB		4,100
CARSWELL AFB		
AIRCRAFT PARKING APRON LIGHTING	1,350	
ELECTRICAL SUBSTATION ACQUISITION	566	
HYDRANT FUELING SYSTEM	10,700	
CARSWELL AFB		12,616
DYESS AFB		
ADD TO AND ALT VEHICLE MAINT SHOP	2,400	
AIRCRAFT CORROSION CONTROL FACILITY	4,100	
RUNWAY APPROACH LIGHTING	1,050	
DYESS AFB		7,550
GOODFELLOW AFB		
SECURITY POLICE OPERATIONS FACILITY	980	
GOODFELLOW AFB		980
KELLY AFB		
ADD TO AND ALT DEPOT CORROSION CTRL FAC	6,300	
AIR FORCE SERVICE INFO AND NEWS CTR FAC	4,000	
KELLY AFB		10,300
LACKLAND AFB		
BASE ENGINEER COMPLEX	8,000	
BASE ROADS	4,150	
DINING FACILITY	4,000	
FIRE STATION	1,350	
UPGRADE SEWER SYSTEM	5,000	
LACKLAND AFB		22,500
LAUGHLIN AFB		
ADD TO AND ALTER FLIGHT SIMULATOR	400	
SPECIALIZED UPT MAINTENANCE SUPPORT	970	
TROOP SUBSISTENCE WAREHOUSE	450	
LAUGHLIN AFB		1,820
RANDOLPH AFB		
SPECIALIZED UPT MAINTENANCE SUPPORT	1,750	
RANDOLPH AFB		1,750

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
TEXAS		
AIR FORCE		
REESE AFB		
SPECIALIZED UPT MAINTENANCE HANGAR	4,100	
TRAFFIC MANAGEMENT FACILITY	990	
REESE AFB		5,090
SHEPPARD AFB		
AIRCRAFT CORROSION CONTROL FACILITY	550	
BASE ENGINEER COMPLEX	6,800	
WING OPERATIONS FACILITY	1,050	
SHEPPARD AFB		8,400
**AIR FORCE		75,106
DEFENSE MEDICAL SUPPORT ACTIVITY		
LACKLAND AIR FORCE BASE		
MAGNETIC RESONANCE IMAGING FACILITY	2,250	
LACKLAND AIR FORCE BASE		2,250
FORT SAM HOUSTON		
HOSPITAL REPLACEMENT PHASE IV	77,000	
FORT SAM HOUSTON		77,000
**DEFENSE MEDICAL SUPPORT ACTIVITY		79,250
ARMY NATIONAL GUARD		
CAMP MAXEY		
RANGE, MRF (RETS)	1,000	
CAMP MAXEY		1,000
EL PASO		
ARMORY, ADD/ALT	2,027	
EL PASO		2,027
FORT WORTH		
COMBINED SUPPORT MAINTENANCE SHOP	3,439	
FORT WORTH		3,439
**ARMY NATIONAL GUARD		6,466
AIR NATIONAL GUARD		
DALLAS NAS		
ADD/ALTER AERIAL PORT TRAINING FAC	325	
DALLAS NAS		325
ELLINGTON ANGB		
ALERT FACILITIES	2,200	
ELLINGTON ANGB		2,200
**AIR NATIONAL GUARD		2,525
NAVY RESERVE		
NAVAL AIR STATION DALLAS		
GROUND SUPPORT EQUIPMENT SHOP	1,640	
LOX/NIT FACILITY	650	
NAVAL AIR STATION DALLAS		2,290
NMCRC HOUSTON		
READINESS CENTER ADDITION	3,600	
NMCRC HOUSTON		3,600
**NAVY RESERVE		5,890
AIR FORCE RESERVE		
BERGSTROM AFB		
ADD/ALTER MAINTENANCE SHOPS	2,450	
BERGSTROM AFB		2,450

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STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
TEXAS		
AIR FORCE RESERVE		
KELLY AFB		
COMPOSITE TRAINING FACILITY	1,400	
RED HORSE VEHICLE MAINTENANCE SHOP	2,300	
KELLY AFB		3,700
**AIR FORCE RESERVE		6,150
**TEXAS		264,206
UTAH		
ARMY		
DUGWAY PROVING GROUND		
SIMULANT MIXING FACILITY	450	
DUGWAY PROVING GROUND		450
TOOELE ARMY DEPOT		
AMMUNITION DEMILITARIZATION FACILITY	11,800	
TOOELE ARMY DEPOT		11,800
**ARMY		12,250
AIR FORCE		
HILL AFB		
DEPOT WAREHOUSE	16,000	
PEACEKEEPER-ORDNANCE STORAGE FACILITY	3,250	
PEACEKEEPER-STAGE STORAGE FACILITY	3,250	
HILL AFB		22,500
ARMY NATIONAL GUARD		
CAMP WILLIAMS		
RANGE, MRF (RETS)	1,070	
CAMP WILLIAMS		1,070
LOGAN		
ARMORY, ADD/ALT	788	
LOGAN		788
**ARMY NATIONAL GUARD		1,858
**UTAH		36,608
VERMONT		
AIR NATIONAL GUARD		
BURLINGTON IAP		
ADD TO AND ALTER MAINTENANCE HANGAR	500	
AVIONICS SHOP	1,700	
BURLINGTON IAP		2,200
VIRGINIA		
ARMY		
FORT A P HILL		
FUEL STORAGE FACILITY	3,200	
FORT A P HILL		3,200
FORT BELVOIR		
ACCESS ROADS - FORT BELVOIR	3,000	
FIRE STATION	1,100	
FIXED WING RUNWAY	1,400	
FORT BELVOIR		5,500
FORT EUSTIS		
HARBOR CONTROL FACILITY	530	
FORT EUSTIS		530

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES　　DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
VIRGINIA		
ARMY		
FORT LEE		
FOOD SERVICE TRAINING FACILITY ADDITION	520	
FORT LEE		520
FORT MYER		
CHILD DEVELOPMENT CENTER	2,150	
FORT MYER		2,150
FORT STORY		
EMERGENCY SERVICES BUILDING	1,600	
FORT STORY		1,600
**ARMY		13,500
NAVY		
ARLINGTON HEADQUARTERS MARINE CORPS		
LOGISTICS SUPPORT FACILITY	2,810	
ARLINGTON HEADQUARTERS MARINE CORPS		2,810
DAHLGREN NAVAL SPACE SURVEILLANCE SYSTEM		
SPACE SURVEILLANCE CENTER	9,850	
DAHLGREN NAVAL SPACE SURVEILLANCE SYSTEM		9,850
DAM NECK FLT COMBAT DIR SYSTEMS SPT ACT		
COMPUTER PROGRAMMING OPERATIONS CTR ADDN	6,500	
DAM NECK FLT COMBAT DIR SYSTEMS SPT ACT		6,500
LITTLE CREEK NAVAL AMPHIBIOUS BASE		
LAND CRAFT AIR CUSHION COMPLEX (INCR II)	12,460	
SURTASS SUPPORT CENTER ADDITION	8,010	
LITTLE CREEK NAVAL AMPHIBIOUS BASE		20,470
LITTLE CREEK NAVAL AMPHIBIOUS SCHOOL		
LANDING CRAFT AIR CUSHION TRAINING FAC	1,800	
TRAINING MATERIALS STORAGE	800	
LITTLE CREEK NAVAL AMPHIBIOUS SCHOOL		2,600
NORFOLK FLEET TRAINING CENTER		
FIRE FIGHTING TRAINING FACILITY	16,080	
NORFOLK FLEET TRAINING CENTER		16,080
NORFOLK NAVAL STATION		
ELECTRIC POWER UPGRADE	10,950	
NORFOLK NAVAL STATION		10,950
NORFOLK NAVY PUBLIC WORKS CENTER		
FUEL LINE	4,020	
NORFOLK NAVY PUBLIC WORKS CENTER		4,020
OCEANA NAVAL AIR STATION		
WEAPONS SYSTEM TRAINER BUILDING ADDITION	3,670	
OCEANA NAVAL AIR STATION		3,670
QUANTICO MARINE CORPS COMBAT DEV COMMAND		
COMBAT DEVELOPMENT CENTER	16,094	
MARINE CORPS ACADEMIC RESEARCH LIBRARY	14,150	
MILITARY OPERATIONS IN URBANIZED TERRAIN	3,870	
QUANTICO MARINE CORPS COMBAT DEV COMMAND		34,114
QUANTICO NAVAL RESEARCH LABORATORY ANNEX		
MIDWAY RESEARCH CENTER UPGRADE	2,600	
QUANTICO NAVAL RESEARCH LABORATORY ANNEX		2,600
WALLOPS ISLAND AEGIS COMBAT SYSTEMS CENTER		
AEGIS COMMAND AND LIFE SUPPORT FACILITY	5,490	
WALLOPS ISLAND AEGIS COMBAT SYSTEMS CENTER		5,490
**NAVY		119,154

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES — DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
VIRGINIA		
AIR FORCE		
LANGLEY AFB		
SOUND SUPPRESSOR SUPPORT	600	
LANGLEY AFB		600
DEFENSE MEDICAL SUPPORT ACTIVITY		
CHEATHAM ANNEX		
FLEET HOSPITAL FACILITY NO. 8	6,500	
CHEATHAM ANNEX		6,500
DAM NECK NAVAL FLIGHT CENTER		
MEDICAL/DENTAL CLINIC REPLACEMENT	4,050	
DAM NECK NAVAL FLIGHT CENTER		4,050
FORT LEE		
HOSPITAL LIFE SAFETY UPGRADE	2,650	
FORT LEE		2,650
PORTSMOUTH NAVAL HOSPITAL		
HOSPITAL REPLACEMENT PHASE II	40,000	
PORTSMOUTH NAVAL HOSPITAL		40,000
QUANTICO MARINE CORPS BASE		
OCS TROOP MEDICAL CLINIC REPLACEMENT	2,450	
QUANTICO MARINE CORPS BASE		2,450
**DEFENSE MEDICAL SUPPORT ACTIVITY		55,650
SPECIAL OPERATIONS COMMAND		
DAM NECK MARINE ENVIRONMENTAL SYSTEMS FAC		
OPERATIONS & MAINTENANCE FACILITY	9,160	
DAM NECK MARINE ENVIRONMENTAL SYSTEMS FAC		9,160
DEF COMMUNICATIONS AGNCY		
ARLINGTON SERVICE CENTER		
DCA-HQS WAREHOUSE REPLACEMENT	2,664	
ARLINGTON SERVICE CENTER		2,664
DEFENSE LOGISTICS AGENCY		
DEFENSE GENERAL SUPPLY CENTER		
CONSOLIDATED MAINTENANCE FACILITY	7,000	
DEFENSE GENERAL SUPPLY CENTER		7,000
ARMY NATIONAL GUARD		
NEWPORT NEWS		
ARMORY, 200-PERSON	2,481	
NEWPORT NEWS		2,481
SANDSTON		
AVN AASF ADDALT PH II PARKING	2,515	
SANDSTON		2,515
**ARMY NATIONAL GUARD		4,996
AIR NATIONAL GUARD		
CAMP PENDLETON ANGB		
BASE SUPPLIES AND EQUIPMENT WAREHOUSE	1,100	
COMPOSITE OPERATIONS AND TRAINING FAC	2,650	
CAMP PENDLETON ANGB		3,750
RICHARD E BYRD IAP		
ADD TO AND ALTER AVIONICS AND ECM SHOP	1,200	
POWER CHECK POD WITH SOUND SUPPRESSOR	700	
RICHARD E BYRD IAP		1,900
**AIR NATIONAL GUARD		5,650

FY'1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
VIRGINIA		
ARMY RESERVE		
COVINGTON		
ADD/ALT ARMY RESERVE CENTER	1,654	
COVINGTON		1,654
NAVY RESERVE		
NARU NORFOLK		
AIRCRAFT MAINTENANCE HANGAR	7,300	
NARU NORFOLK		7,300
FAMILY HOUSING		
NAVY		
LITTLE CREEK NAVAL AMPHIBIOUS BASE		
NEW CONSTRUCTION (COMMUNITY CENTER)	[372]	
LITTLE CREEK NAVAL AMPHIBIOUS BASE FAMILY HOUSING		[372]
PWC NORFOLK		
NEW CONSTRUCTION (COMMUNITY CENTER)	[417]	
NEW CONSTRUCTION (COMMUNITY CENTER)	[417]	
PWC NORFOLK FAMILY HOUSING		[834]

**NAVY FAMILY HOUSING		[1,206]

**VIRGINIA		227,328
FAMILY HOUSING		[1,206]
WASHINGTON		
ARMY		
FORT LEWIS		
AUTOMATED RECORD FIRE RANGE	1,250	
BRIGADE HEADQUARTERS	8,800	
CHAPEL CENTER	2,850	
TACTICAL SUPPORT CENTER	5,100	
FORT LEWIS		18,000
NAVY		
BANGOR TRIDENT REFIT FACILITY		
CRANE TRACKAGE EXTENSION	910	
HAZARDOUS AND FLAMMABLE STOREHOUSE	2,110	
BANGOR TRIDENT REFIT FACILITY		3,020
BANGOR TRIDENT TRAINING FACILITY		
FIRE FIGHTING TRAINING FACILITY	3,610	
BANGOR TRIDENT TRAINING FACILITY		3,610
BREMERTON PUGET SOUND NAVAL SHIPYARD		
DRY DOCK UTILITIES UPGRADE	2,000	
BREMERTON PUGET SOUND NAVAL SHIPYARD		2,000
EVERETT NAVAL STATION		
CARRIER PIER SUPPORT	15,777	
COMMUNICATION FACILITY	1,660	
SECURITY AND FIRE STATION	1,760	
UTILITIES AND SITE IMPROVEMENTS	3,070	
EVERETT NAVAL STATION		22,267
KEYPORT NAVAL UNDERSEA WARFARE ENGR STA		
AUTOMATED MATERIALS HANDLING FACILITY	7,340	
FIRE STATION	1,100	
SUBMARINE WEAPONS SYSTEMS SHOP	10,150	
KEYPORT NAVAL UNDERSEA WARFARE ENGR STA		18,590

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
INSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
WASHINGTON		
NAVY		
OAK HARBOR NAVAL HOSPITAL		
AVIATION PHYSIOLOGY TRAINING FACILITY	2,180	
OAK HARBOR NAVAL HOSPITAL		2,180
SILVERDALE STRATEGIC WEAPONS FACILITY PAC		
ENGINEERING SERVICES BUILDING	3,520	
MAGAZINE MODIFICATIONS	800	
MISSILE ASSEMBLY BUILDING	7,340	
MOTOR INSPECTION BUILDING	6,630	
RADIOGRAPHIC INSPECTION BUILDING	13,870	
TRAINING FACILITY ADDITION	9,740	
TRANSFER FACILITY ADDITION	3,520	
UTILITIES AND SITE IMPROVEMENTS	11,060	
SILVERDALE STRATEGIC WEAPONS FACILITY PAC		56,480
WHIDBEY ISLAND NAVAL AIR STATION		
OPERATIONS & MAINTENANCE TRNR FAC (INCR I)	19,100	
WHIDBEY ISLAND NAVAL AIR STATION		19,100
WHIDBEY ISLAND NAVAL FACILITY		
ELECTRIC POWER IMPROVEMENTS	1,750	
WHIDBEY ISLAND NAVAL FACILITY		1,750
**NAVY		128,997
AIR FORCE		
FAIRCHILD AFB		
ADD TO/ALTER ACFT PARKING APRON LIGHTING	1,600	
ALTER AIRCRAFT MAINTENANCE COMPLEX	9,600	
PEACEKEEPER-ADD/ALTER COMM MAINT FAC	990	
PEACEKEEPER-GARRISON FACILITIES	73,000	
PEACEKEEPER-LAND ACQUISITION	1,000	
PEACEKEEPER-MISSILE OPS MAINT FACILITY	6,900	
PEACEKEEPER-ROAD RAILROAD AND UTILITIES	11,200	
PEACEKEEPER-TRAINING TRAIN SHELTER	3,750	
FAIRCHILD AFB		108,040
MCCHORD AFB		
SQUADRON OPERATIONS FACILITY	5,200	
MCCHORD AFB		5,200
**AIR FORCE		113,240
ARMY NATIONAL GUARD		
EVERETT / SNOHOMISH		
ORGANIZATIONAL MAINTENANCE SHOP3	345	
EVERETT / SNOHOMISH		345
AIR FORCE RESERVE		
MCCHORD AFB		
SQUADRON OPERATIONS FACILITY	1,500	
MCCHORD AFB		1,500
**WASHINGTON		262,082
WEST VIRGINIA		
AIR NATIONAL GUARD		
E WV REGIONAL APT (MARTINSBURG)		
ADD TO AND ALTER AVIONICS SHOP	400	
E WV REGIONAL APT (MARTINSBURG)		400
WISCONSIN		
ARMY		
FORT MCCOY		
CENTRAL FUEL STORAGE FACILITY	5,500	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
WISCONSIN		
ARMY		
FORT MCCOY		
CENTRAL WASH FACILITY	5,000	
COLD STORAGE WAREHOUSE	5,000	
MULTI-PURPOSE TRAINING RANGE	8,900	
FORT MCCOY		24,400
ARMY RESERVE		
FORT MCCOY		
REGIONAL TRAINING SITE-MEDICAL	2,258	
FORT MCCOY		2,258

**WISCONSIN		26,658
WYOMING		
AIR FORCE		
FE WARREN AFB		
ADD TO AND ALT TRANSPORTATION COMPLEX	4,400	
PEACEKEEPER-DORMITORY	5,200	
FE WARREN AFB		9,600
DEFENSE LOGISTICS AGENCY		
DRMO, F.E. WARREN AFB		
COVERED STORAGE FACILITY	1,700	
DRMO, F.E. WARREN AFB		1,700
ARMY NATIONAL GUARD		
CAMP GUERNSEY		
TRNG SITE, 200-PERSON BKS	983	
CAMP GUERNSEY		983
LANDER		
OMS, SUB SHOP	277	
LANDER		277

**ARMY NATIONAL GUARD		1,260

**WYOMING		12,560
CONUS CLASSIFIED		
ARMY		
CLASSIFIED LOCATIONS		
CLASSIFIED PROJECT	3,000	
CLASSIFIED LOCATIONS		3,000
AIR FORCE		
CLASSIFIED LOCATION		
ADD/ALTER FUEL SYSTEM MAINTENANCE DOCK	2,200	
ALTER AVIONICS SHOP	850	
ALTER SQUADRON OPERATIONS	2,000	
CONVENTIONAL MUNITIONS SHOP	950	
FLIGHT SIMULATION TRAINING	3,400	
MUNITIONS STORAGE FACILITY	1,600	
CLASSIFIED LOCATION		11,000
SPECIAL OPERATIONS COMMAND		
CLASSIFIED LOCATION		
ADD/ALT MAINTENANCE SHOPS	547	
AVIONICS SHOP	2,200	
CLASSIFIED LOCATION		2,747
DEFENSE LEVEL ACTIVITIES		
CLASSIFIED LOCATION		
BUILDING ADD W SUPPORT FACILITIES	27,425	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
INSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
CONUS CLASSIFIED		
DEFENSE LEVEL ACTIVITIES		
CLASSIFIED LOCATION		
CLASSIFIED PROJECT	5,375	
CLASSIFIED LOCATION		32,800
**CONUS CLASSIFIED		49,547

TOTALS

ARMY	678,292
FAMILY HOUSING	[15,000]
NAVY	1,003,477
FAMILY HOUSING	[90,114]
AIR FORCE	1,147,911
FAMILY HOUSING	[1,617]
DEFENSE AGENCIES	488,811
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR	(20,320)
INSIDE THE UNITED STATES	3,318,491
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR	(20,320)
FAMILY HOUSING	[106,731]

INTENTIONAL
BLANK

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES SPECIFIED OUTSIDE THE UNITED STATES ($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ANTIGUA		
AIR FORCE		
ANTIGUA MISSILE TRACKING ANNEX		
INSTRUMENTATION FACILITY	8,200	
ANTIGUA MISSILE TRACKING ANNEX		8,200
FAMILY HOUSING		
BERMUDA		
NAVY		
NAVAL AIR STATION		
NEW CONSTRUCTION (FAMILY HOUSING OFFICE)	[378]	
NAVAL AIR STATION		
FAMILY HOUSING		[378]
CANADA		
AIR FORCE		
VARIOUS LOCATIONS-CANADA		
FORWARD OPERATING LOCATIONS	6,300	
*FORWARD OPERATING LOCATIONS	12,000	
VARIOUS LOCATIONS-CANADA		18,300
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(12,000)
GERMANY		
ARMY		
GERMANY VARIOUS		
RECORD FIRE RANGES	4,053	
WARTIME HOST NATION SUPPORT	2,500	
GERMANY VARIOUS		6,553
GIESSEN		
TANK CREW COMBAT COURSE	2,250	
GIESSEN		2,250
GRAFENWOEHR		
APPLIED INSTRUCTION FACILITY	5,700	
PAVE TANK TRAIL	1,630	
READY BUILDING	3,500	
GRAFENWOEHR		10,830
HEILBRONN		
HARDSTAND & WASH FACILITY	5,500	
HEILBRONN		5,500
HOHENFELS TNG AREA		
EDUCATION CENTER ADDITION	610	
HARDSTAND & MAINTENANCE SHEDS	4,350	
LIBRARY ADDITION	550	
MILITARY POLICE STATION ADDITION	1,300	
PHYSICAL FITNESS TRAINING CENTER	3,350	
HOHENFELS TNG AREA		10,160
KAISERSLAUTERN		
MISSILE MAINTENANCE SHOP	5,000	
KAISERSLAUTERN		5,000
MANNHEIM		
VEHICLE MAINTENANCE SHEDS	7,600	
MANNHEIM		7,600
VILSECK		
CHAPEL CENTER/RELIGIOUS EDUCATION FAC	3,300	
FIRE STATION	1,250	

* AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
GERMANY		
ARMY		
VILSECK		
HARDSTAND/TACTICAL EQUIP SHOP & SHEDS	8,500	
MULTI-PURPOSE AUDITORIUM FACILITY	2,550	
VILSECK		15,600
**ARMY		63,493
AIR FORCE		
BITBURG AB		
ADD TO PHYSICAL FITNESS CENTER	2,000	
BITBURG AB		2,000
HAHN AB		
UPGRADE WATER STOR AND DISTR SYS	4,300	
HAHN AB		4,300
MARIENFELDE		
UPGRADE OPERATIONS FACILITY	1,621	
MARIENFELDE		1,621
RHEIN-MAIN AB		
COMMUNICATIONS CONTROL CENTER	3,250	
RHEIN-MAIN AB		3,250
SPANGDAHLEM AB		
ADD/ALTER WATER STORAGE AND DISTRIB SYST	4,900	
UPGRADE SEWAGE TREATMENT PLANT/SEWER SYS	4,350	
SPANGDAHLEM AB		9,250
**AIR FORCE		20,421
DOD DEPENDENT SCHOOLS		
DARMSTADT		
ELEM/JR HIGH ADDITIONS	7,276	
DARMSTADT		7,276
FRANKFURT		
ATTERBURY ELEM SCHOOL ADDITION	7,449	
FRANKFURT		7,449
IDAR OBERSTEIN		
ELEMENTARY SCHOOL ADDITION	2,189	
IDAR OBERSTEIN		2,189
KAISERSLAUTERN		
ELEM, JR, & HS ADDITIONS	13,341	
KAISERSLAUTERN		13,341
LANDSTUHL		
ELEM/MIDDLE SCHOOL ADDITION	3,724	
LANDSTUHL		3,724
MANNHEIM		
HIGH SCHOOL ADDITION	8,708	
MANNHEIM		8,708
NELLINGEN		
ELEMENTARY SCHOOL ADDITION	3,187	
NELLINGEN		3,187
RAMSTEIN		
ELEMENTARY & JR HIGH ADDITIONS	12,217	
RAMSTEIN		12,217
**DOD DEPENDENT SCHOOLS		58,091

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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

      ACTIVE, GUARD AND RESERVE FORCES        DATA AS OF 29 JAN 1990
     SPECIFIED OUTSIDE THE UNITED STATES
              ($ THOUSANDS)
STATE/COMP./INSTALLATION                          PROJ COST      TOTAL
-------------------PROJECT NAME---------------   ----------  ----------
GERMANY
  DEFENSE MEDICAL SUPPORT ACTIVITY
    GIESSEN
     DISPENSARY/DENTAL CLINIC REPLACEMENT            5,000
      GIESSEN                                                     5,000

    NUERNBERG
     DISPENSARY/DENTAL CLINIC REPLACEMENT            5,800
      NUERNBERG                                                   5,800

    RHEIN-MAIN AIR BASE
     AEROMEDICAL EVACUATION LOGISTICS FACILITY         870
      RHEIN-MAIN AIR BASE                                           870
                                                             ----------
  **DEFENSE MEDICAL SUPPORT ACTIVITY                                 11,670
                                                             ----------
**GERMANY                                                       153,675


GREENLAND
  AIR FORCE
    THULE AB
     UPGRADE AIRFIELD PAVEMENTS-PHASE I              6,300
      THULE AB                                                    6,300


GUAM
  NAVY
    NAVAL MAGAZINE
     TOMAHAWAK SUPPORT COMPLEX                       9,319
      NAVAL MAGAZINE                                              9,319

    NAVY PUBLIC WORKS CENTER
     SANITARY WASTEWATER SYSTEM UPGRADE              7,500
      NAVY PUBLIC WORKS CENTER                                    7,500
                                                             ----------
  **NAVY                                                         16,819

***FAMILY HOUSING***

  AIR FORCE
    ANDERSEN AFB
     HOUSING SUPPLY AND STORAGE FACILITY            [1,371]
      ANDERSEN AFB
        FAMILY HOUSING                                           [1,371]
                                                             ----------
**GUAM                                                           16,819
        FAMILY HOUSING                                           [1,371]

***FAMILY HOUSING***


GUANTANAMO BAY, CUBA
  NAVY
    NAVAL STATION GUANTANAMO BAY
     NEW CONSTRUCTION (134)                        [18,409]
      NAVAL STATION GUANTANAMO BAY
        FAMILY HOUSING                                          [18,409]


HONDURAS
  AIR FORCE
    LA MESA AB
     AIRFIELD IMPROVEMENTS                          12,600
      LA MESA AB                                                 12,600

    PALMEROLA AB
     C130-AIRCRAFT APRON                             4,600
      PALMEROLA AB                                                4,600
                                                             ----------
  **AIR FORCE                                                    17,200
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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

      ACTIVE, GUARD AND RESERVE FORCES         DATA AS OF 29 JAN 1990
      SPECIFIED OUTSIDE THE UNITED STATES
                ($ THOUSANDS)
STATE/COMP./INSTALLATION                              PROJ COST       TOTAL
-------------------PROJECT NAME---------------       ----------  ----------
ICELAND
  NAVY
    KEFLAVIK NAVAL AIR STATION
     FUEL FACILITIES                                       2,440
      KEFLAVIK NAVAL AIR STATION                                      2,440

    KEFLAVIK NAVAL COMMUNICATION STATION
     COMMUNICATION CENTER                                 10,248
      KEFLAVIK NAVAL COMMUNICATION STATION                           10,248
                                                                 ----------
  **NAVY                                                             12,688

***FAMILY HOUSING***

  NAVY
    NAVAL AIR STATION KEFLAVIK
     NEW CONSTRUCTION (112)                             [27,479]
      NAVAL AIR STATION KEFLAVIK
        FAMILY HOUSING                                              [27,479]
                                                                 ----------
**ICELAND                                                            12,688
        FAMILY HOUSING                                              [27,479]


ITALY
  NAVY
    SICILY NAVAL COMMUNICATION STATION
     RECEIVER FACILITY                                     1,513
      SICILY NAVAL COMMUNICATION STATION                              1,513

    SIGONELLA NAVAL AIR STATION
     CORROSION CONTROL HANGAR                              8,390
     ENGINE MAINTENANCE SHOP ADDITION                      1,850
      SIGONELLA NAVAL AIR STATION                                    10,240
                                                                 ----------
  **NAVY                                                             11,753

  AIR FORCE
    GHEDI AIRFIELD
     ALTER MUNITIONS STORAGE FACILITY                        550
      GHEDI AIRFIELD                                                    550

    RIMINI AIRFIELD
     ALTER MUNITIONS STORAGE FACILITY                        510
      RIMINI AIRFIELD                                                   510

    SAN VITO AS
     ALTER DORMITORY                                       2,750
      SAN VITO AS                                                     2,750
                                                                 ----------
  **AIR FORCE                                                         3,810

  DEFENSE MEDICAL SUPPORT ACTIVITY
    AVIANO AIR BASE
     SECOND ECHELON MEDICAL LOGISTICS STORAGE              1,100
      AVIANO AIR BASE                                                 1,100

    VICENZA
     HOSPITAL REPLACEMENT                                 28,000
      VICENZA                                                        28,000
                                                                 ----------
  **DEFENSE MEDICAL SUPPORT ACTIVITY                                 29,100
                                                                 ----------
**ITALY                                                              44,663


JAPAN
  ARMY
    JAPAN VARIOUS
     AMMUNITION STORAGE                                    8,400
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FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
JAPAN		
ARMY		
JAPAN VARIOUS		
AMMUNITION SURVEILLANCE FACILITY	2,050	
JAPAN VARIOUS		10,450
NAVY		
HANZA OKINAWA NAVAL SECURITY GROUP ACT		
FIRE PROTECTION SYSTEM	1,035	
HANZA OKINAWA NAVAL SECURITY GROUP ACT		1,035
IWAKUNI MARINE CORPS AIR STATION		
HANGAR CONVERSION	3,017	
IWAKUNI MARINE CORPS AIR STATION		3,017
**NAVY		4,052
AIR FORCE		
KADENA AB		
CONTROL TOWER CAB	770	
FIRE PROTECTION KC135 MAINT	2,950	
KADENA AB		3,720
**JAPAN		18,222
JOHNSTON ISLAND		
DEFENSE NUCLEAR AGENCY		
DNA HDQTRS FIELD COMMAND		
COMMUNITY SUPPORT COMPLEX	4,145	
MAINTENANCE FACILITY PHASE 1	4,450	
DNA HDQTRS FIELD COMMAND		8,595
KOREA		
ARMY		
CAMP CASEY		
BARRACKS	8,690	
CAMP CASEY		8,690
CAMP GARY OWEN		
TACTICAL EQUIPMENT SHOP	1,800	
CAMP GARY OWEN		1,800
CAMP HOVEY		
TACTICAL EQUIPMENT SHOP	8,500	
CAMP HOVEY		8,500
K-16 ARMY AIRFIELD		
FLIGHT SIMULATOR BUILDING	1,500	
K-16 ARMY AIRFIELD		1,500
KOREA VARIOUS		
AMMUNITION STORAGE	11,000	
KOREA VARIOUS		11,000
**ARMY		31,490
AIR FORCE		
KUNSAN AB		
ACFT FUELS SYS REPR DOCK	3,300	
PHYSICAL FITNESS COMPLEX	5,300	
SQUADRON OPERATIONS FACILITY	6,000	
UPGRADE ELECTRICAL DIST SYSTEM-PHASE III	5,700	
KUNSAN AB		20,300
OSAN AB		
AIRCRAFT SUPPORT EQUIP SHOP/STORAGE FAC	1,800	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES   DATA AS OF 29 JAN 1990
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
KOREA		
AIR FORCE		
OSAN AB		
BASE OPERATIONS FACILITY	1,950	
FIRE STATION	4,650	
REPLACE TAXIWAY PAVEMENT-PHASE I	5,500	
SQUADRON OPERATIONS/SENSOR MAINT FAC	1,700	
OSAN AB		15,600

**AIR FORCE		35,900
DEFENSE MEDICAL SUPPORT ACTIVITY		
CAMP CASEY		
TROOP MEDICAL CLINIC REPLACEMENT	1,000	
CAMP CASEY		1,000
KUNSAN AIR BASE		
HOSPITAL/DENTAL CLINIC REPLACEMENT	14,400	
KUNSAN AIR BASE		14,400

**DEFENSE MEDICAL SUPPORT ACTIVITY		15,400

**KOREA		82,790
PHILIPPINES		
AIR FORCE		
CLARK AB		
CONTROL TOWER CAB	710	
CLARK AB		710
PUERTO RICO		
ARMY NATIONAL GUARD		
CAMP SANTIAGO (SALINAS)		
RANGE, MRF (RETS)	1,000	
CAMP SANTIAGO (SALINAS)		1,000
AIR NATIONAL GUARD		
PUERTO RICO IAP		
FIRE SUPPRESSION SYSTEM	1,100	
PUERTO RICO IAP		1,100

**PUERTO RICO		2,100
SEYCHELLE ISLANDS		
AIR FORCE		
MAHE MISSILE TRACKING SITE		
SATELLITE CONTROL FACILITY	4,600	
MAHE MISSILE TRACKING SITE		4,600
SPAIN		
NAVY		
ROTA NAVAL COMMUNICATION STATION		
OPERATIONS BUILDING UPGRADE	1,105	
ROTA NAVAL COMMUNICATION STATION		1,105
TURKEY		
AIR FORCE		
INCIRLIK AB		
ALTER MUNITIONS STORAGE FACILITY	3,700	
WATER DISTRIBUTION MAINS	1,100	
INCIRLIK AB		4,800

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
TURKEY		
AIR FORCE		
PIRINCLIK		
DORMITORY	1,250	
PIRINCLIK		1,250
**AIR FORCE		6,050
DEFENSE MEDICAL SUPPORT ACTIVITY		
SINOP		
MEDICAL/DENTAL CLINIC REPLACEMENT	1,750	
SINOP		1,750
**TURKEY		7,800
UNITED KINGDOM		
NAVY		
BRAWDY WALES FLEET SURVEILLANCE SPT CMD		
ELECTRONIC INSTALLATION	1,740	
BRAWDY WALES FLEET SURVEILLANCE SPT CMD		1,740
LONDON PERSONNEL SUPPORT ACTIVITY		
PAY AND PERSONNEL SUPPORT OFFICE	442	
LONDON PERSONNEL SUPPORT ACTIVITY		442
**NAVY		2,182
AIR FORCE		
HIGH WYCOMBE		
DORMITORY	4,200	
HIGH WYCOMBE		4,200
RAF ALCONBURY		
ADD TO AND ALTER PHYSICAL FITNESS CENTER	3,200	
ALTER DORMITORIES	4,100	
RAF ALCONBURY		7,300
RAF BENTWATERS		
CENTRAL POST OFFICE	1,500	
RAF BENTWATERS		1,500
RAF CHICKSANDS		
SATELLITE COMMUNICATIONS TERMINAL	12,200	
RAF CHICKSANDS		12,200
RAF LAKENHEATH		
ALTER DORMITORY	3,155	
ALTER MUNITIONS STORAGE FACILITY	4,950	
RAF LAKENHEATH		8,105
RAF MILDENHALL		
ADD TO AND ALT PHYSICAL FITNESS CENTER	1,100	
RAF MILDENHALL		1,100
**AIR FORCE		34,405
DOD DEPENDENT SCHOOLS		
HARROGATE		
MENWITH HILL MS ADDITION	2,100	
HARROGATE		2,100
DEFENSE MEDICAL SUPPORT ACTIVITY		
RAF EDZELL		
MEDICAL DENTAL CLINIC RPMT	5,400	
RAF EDZELL		5,400

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
UNITED KINGDOM		
DEFENSE MEDICAL SUPPORT ACTIVITY		
ROYAL AIR FORCE LANARK		
FLEET HOSPITAL FACILITY 14		
ROYAL AIR FORCE LANARK	3,900	
		3,900
**DEFENSE MEDICAL SUPPORT ACTIVITY		9,300
**UNITED KINGDOM		47,987
OVERSEAS CLASSIFIED		
AIR FORCE		
OVERSEAS CLASSIFIED		
F15E-CONVENTIONAL MUNITIONS MAINT FAC	2,400	
F15E-FIELD TRAINING FACILITY	2,400	
OPERATIONS FACILITY	14,243	
TACTICAL INTELLIGENCE CENTER	3,000	
OVERSEAS CLASSIFIED		22,043
DEFENSE LEVEL ACTIVITIES		
OVERSEAS CLASSIFIED		
CLASSIFIED PROJECT		
OVERSEAS CLASSIFIED	1,600	
		1,600
NATIONAL SECURITY AGENCY		
CLASSIFIED OVERSEAS LOCATIONS		
CLASSIFIED PROJECT		
CLASSIFIED OVERSEAS LOCATIONS	2,375	
		2,375
FAMILY HOUSING		
NATIONAL SECURITY AGENCY		
OVERSEAS CLASSIFIED		
CLASSIFIED PROJECT (3)		
OVERSEAS CLASSIFIED	[400]	
FAMILY HOUSING		
		[400]
**OVERSEAS CLASSIFIED		26,018
FAMILY HOUSING		[400]
OVERSEAS VARIOUS		
DOD DEPENDENT SCHOOLS		
VARIOUS LOCATIONS		
HOT LUNCH FACILITIES		
VARIOUS LOCATIONS	15,188	
		15,188

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES
SPECIFIED OUTSIDE THE UNITED STATES
($ THOUSANDS)

DATA AS OF 29 JAN 1990

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
TOTALS		
ARMY		106,433
NAVY		48,599
FAMILY HOUSING		[46,266]
AIR FORCE		182,759
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(12,000)
FAMILY HOUSING		[1,371]
DEFENSE AGENCIES		155,169
FAMILY HOUSING		[400]
SPECIFIED OUTSIDE THE UNITED STATES		492,960
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(12,000)
FAMILY HOUSING		[48,037]

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
UNSPECIFIED WORLDWIDE
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
WORLDWIDE CLASSIFIED		
VARIOUS FACILITIES		
AIR FORCE	4,000	
VARIOUS FACILITIES		4,000
VARIOUS FACILITIES		
AIR FORCE	2,600	
VARIOUS FACILITIES		2,600
VARIOUS FACILITIES		
AIR FORCE	3,800	
VARIOUS FACILITIES		3,800
VARIOUS FACILITIES		
AIR FORCE	4,000	
VARIOUS FACILITIES		4,000
WORLDWIDE CLASSIFIED		14,400
WORLDWIDE UNSPECIFIED		
DEFENSE LEVEL ACTIVITIES		
OSD MILCON-WORLDWIDE UNSPECIFIED		
NATO INFRASTRUCTURE	460,400	
NATO INFRASTRUCTURE		460,400
ACCESS ROADS		
NAVY	4,017	
ACCESS ROADS		4,017
CONTINGENCY CONSTRUCTION		
DEFENSE LEVEL ACTIVITIES	12,700	
CONTINGENCY CONSTRUCTION		12,700
BASE REALIGNMENT AND CLOSURE		
DEFENSE LEVEL ACTIVITIES	916,500	
BASE REALIGNMENT AND CLOSURE		916,500
UNSPECIFIED MINOR CONSTRUCTION		
ARMY	7,603	
NAVY	13,311	
AIR FORCE	10,272	
DEFENSE MEDICAL SUPPORT ACTIVITY	2,655	
SPECIAL OPERATIONS COMMAND	100	
STRATEGIC DEFENSE INITIATIVE ORGANIZATION	1,500	
DEFENSE LEVEL ACTIVITIES	1,500	
JOINT CHIEFS OF STAFF	7,200	
ARMY NATIONAL GUARD	3,786	
AIR NATIONAL GUARD	3,793	
ARMY RESERVE	2,253	
NAVY RESERVE	1,600	
AIR FORCE RESERVE	1,415	
UNSPECIFIED MINOR CONSTRUCTION		56,988
PLANNING AND DESIGN		
ARMY	89,577	
NAVY	76,951	
AIR FORCE	107,741	
WASHINGTON HEADQUARTERS SERVICES	10,000	
DEFENSE MEDICAL SUPPORT ACTIVITY	44,300	
SPECIAL OPERATIONS COMMAND	2,689	
STRATEGIC DEFENSE INITIATIVE ORGANIZATION	6,000	
DEFENSE LEVEL ACTIVITIES	41,296	
ARMY NATIONAL GUARD	4,100	
AIR NATIONAL GUARD	8,800	

FY 1991 MILITARY CONSTRUCTION TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

ACTIVE, GUARD AND RESERVE FORCES DATA AS OF 29 JAN 1990
UNSPECIFIED WORLDWIDE
($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
WORLDWIDE UNSPECIFIED		
PLANNING AND DESIGN		
ARMY RESERVE	4,756	
NAVY RESERVE	3,885	
AIR FORCE RESERVE	3,309	
PLANNING AND DESIGN		403,404
WORLDWIDE UNSPECIFIED		1,854,009
WORLDWIDE VARIOUS		
NAVY		
LAND ACQUISITION-WORLDWIDE VARIOUS		
LAND ACQUISITION	10,660	
LAND ACQUISITION		10,660
VARIOUS LOCATIONS-WORLDWIDE VARIOUS		
HOST NATION INFRASTRUCTURE SUPPORT	1,000	
VARIOUS LOCATIONS		1,000
NAVY		11,660
DEFENSE LOGISTICS AGENCY		
VARIOUS LOCATIONS-WORLDWIDE VARIOUS		
CONFORMING STORAGE FACILITIES	10,000	
CONFORMING STORAGE FACILITIES	3,580	
VARIOUS LOCATIONS		13,580
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,580)
ARMY NATIONAL GUARD		
VARIOUS LOCATIONS-WORLDWIDE VARIOUS		
ARMORY UNIT STORAGE BUILDING	1,600	
VARIOUS LOCATIONS		1,600
VARIOUS LOCATIONS-WORLDWIDE VARIOUS		
RANGE, INDOOR MODERNIZATION	2,200	
VARIOUS LOCATIONS		2,200
ARMY NATIONAL GUARD		3,800
WORLDWIDE VARIOUS		29,040
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,580)
TOTALS		
ARMY		115,875
NAVY		111,424
AIR FORCE		149,730
DEFENSE AGENCIES		1,520,420
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,580)
UNSPECIFIED WORLDWIDE		1,897,449
AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR		(3,580)

* AUTHORIZED FOR APPROPRIATION IN PRIOR YEAR

FY 1991 FAMILY HOUSING TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

DATA AS OF 29 JAN 1990

($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
ARMY		
NEW CONSTRUCTION		
HAWAII		
VARIOUS OAHU		
NEW CONSTRUCTION (138)	15,000	
VARIOUS OAHU		15,000
NEW CONSTRUCTION		15,000
CONSTRUCTION IMPROVEMENTS	44,100	44,100
PLANNING	2,700	2,700
TOTAL FAMILY HOUSING, ARMY CONSTRUCTION		61,800
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	73,469	
MANAGEMENT ACCOUNT	80,883	
MISCELLANEOUS ACCOUNT	1,629	
SERVICES ACCOUNT	58,203	
UTILITIES ACCOUNT	303,641	
OPERATING EXPENSES		517,825
LEASING	434,316	434,316
MAINTENANCE OF REAL PROPERTY	540,210	540,210
TOTAL FAMILY HOUSING, ARMY OPERATIONS		1,492,351
INTEREST PAYMENTS	31	31
MORTGAGE INSURANCE PREMIUMS	18	18
TOTAL FAMILY HOUSING, ARMY DEBT		49
GRAND TOTAL FAMILY HOUSING, ARMY		1,554,200
NAVY		
NEW CONSTRUCTION		
CALIFORNIA		
MARINE CORPS BASE CAMP PENDLETON		
NEW CONSTRUCTION (112)	11,805	
MARINE CORPS BASE CAMP PENDLETON		11,805
NAVAL STATION LONG BEACH		
NEW CONSTRUCTION (300)	24,928	
NAVAL STATION LONG BEACH		24,928
PACIFIC MISSILE TEST CENTER POINT MUGU		
NEW CONSTRUCTION (FAMILY HOUSING OFFICE)	603	
PACIFIC MISSILE TEST CENTER POINT MUGU		603
PUBLIC WORKS CENTER SAN DIEGO		
NEW CONSTRUCTION (300)	31,880	
PUBLIC WORKS CENTER SAN DIEGO		31,880
CALIFORNIA		69,216
NEW YORK		
NAVAL STATION NEW YORK		
NEW CONSTRUCTION (150)	19,692	
NAVAL STATION NEW YORK		19,692
VIRGINIA		
LITTLE CREEK NAVAL AMPHIBIOUS BASE		
NEW CONSTRUCTION (COMMUNITY CENTER)	372	
LITTLE CREEK NAVAL AMPHIBIOUS BASE		372

FY 1991 FAMILY HOUSING TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

DATA AS OF 29 JAN 1990

($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
NAVY		
NEW CONSTRUCTION		
VIRGINIA		
PWC NORFOLK		
NEW CONSTRUCTION (COMMUNITY CENTER)	417	
NEW CONSTRUCTION (COMMUNITY CENTER)	417	
PWC NORFOLK		834
VIRGINIA		1,206
BERMUDA		
NAVAL AIR STATION		
NEW CONSTRUCTION (FAMILY HOUSING OFFICE)	378	
NAVAL AIR STATION		378
GUANTANAMO BAY, CUBA		
NAVAL STATION GUANTANAMO BAY		
NEW CONSTRUCTION (134)	18,409	
NAVAL STATION GUANTANAMO BAY		18,409
ICELAND		
NAVAL AIR STATION KEFLAVIK		
NEW CONSTRUCTION (112)	27,479	
NAVAL AIR STATION KEFLAVIK		27,479
NEW CONSTRUCTION		136,380
CONSTRUCTION IMPROVEMENTS	42,420	42,420
PLANNING	6,200	6,200
TOTAL FAMILY HOUSING, NAVY CONSTRUCTION		185,000
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	22,609	
MANAGEMENT ACCOUNT	53,306	
MISCELLANEOUS ACCOUNT	825	
SERVICES ACCOUNT	37,140	
UTILITIES ACCOUNT	180,610	
OPERATING EXPENSES		294,490
LEASING	53,775	53,775
MAINTENANCE OF REAL PROPERTY	371,037	371,037
TOTAL FAMILY HOUSING, NAVY OPERATIONS		719,302
MORTGAGE INSURANCE PREMIUMS	198	198
TOTAL FAMILY HOUSING, NAVY DEBT		198
GRAND TOTAL FAMILY HOUSING, NAVY		904,500
AIR FORCE		
NEW CONSTRUCTION		
NEVADA		
NELLIS AFB		
HOUSING OFFICE	235	
NELLIS AFB		235
NEW MEXICO		
HOLLOMAN AFB		
HOUSING MAINTENANCE FACILITY	219	
HOLLOMAN AFB		219
SOUTH CAROLINA		
CHARLESTON AFB		
HOUSING OFFICE AND MAINTENANCE FACILITY	592	
CHARLESTON AFB		592

FY 1991 FAMILY HOUSING TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

DATA AS OF 29 JAN 1990

($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
AIR FORCE		
NEW CONSTRUCTION		
SOUTH CAROLINA		
MYRTLE BEACH AFB		
HOUSING OFFICE	258	
MYRTLE BEACH AFB		258
SOUTH CAROLINA		850
SOUTH DAKOTA		
ELLSWORTH AFB		
HOUSING OFFICE	313	
ELLSWORTH AFB		313
GUAM		
ANDERSEN AFB		
HOUSING SUPPLY AND STORAGE FACILITY	1,371	
ANDERSEN AFB		1,371
NEW CONSTRUCTION		2,988
CONSTRUCTION IMPROVEMENTS	173,612	173,612
PLANNING	6,000	6,000
TOTAL FAMILY HOUSING, AIR FORCE CONSTRUCTION		182,600
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	55,164	
MANAGEMENT ACCOUNT	41,034	
MISCELLANEOUS ACCOUNT	7,559	
SERVICES ACCOUNT	24,532	
UTILITIES ACCOUNT	223,097	
OPERATING EXPENSES		351,386
LEASING	110,911	110,911
MAINTENANCE OF REAL PROPERTY	326,922	326,922
TOTAL FAMILY HOUSING, AIR FORCE OPERATIONS		789,219
MORTGAGE INSURANCE PREMIUMS	81	81
TOTAL FAMILY HOUSING, AIR FORCE DEBT		81
GRAND TOTAL FAMILY HOUSING, AIR FORCE		971,900
NATIONAL SECURITY AGENCY		
NEW CONSTRUCTION		
OVERSEAS CLASSIFIED		
OVERSEAS CLASSIFIED		
CLASSIFIED PROJECT (3)	400	
OVERSEAS CLASSIFIED		400
NEW CONSTRUCTION		400
CONSTRUCTION IMPROVEMENTS	57	57
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	100	
MANAGEMENT ACCOUNT	105	
MISCELLANEOUS ACCOUNT	1	
SERVICES ACCOUNT	281	
UTILITIES ACCOUNT	355	
OPERATING EXPENSES		842
LEASING	7,195	7,195

FY 1991 FAMILY HOUSING TOTAL OBLIGATIONAL AUTHORITY AS REQUESTED

DATA AS OF 29 JAN 1990

($ THOUSANDS)

STATE/COMP./INSTALLATION PROJECT NAME	PROJ COST	TOTAL
NATIONAL SECURITY AGENCY		
MAINTENANCE OF REAL PROPERTY	200	200
TOTAL FAMILY HOUSING, NSA		8,694
DEF INTELLIGENCE AGENCY		
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	1,060	
OPERATING EXPENSES		1,060
LEASING	10,702	10,702
TOTAL FAMILY HOUSING, DIA		11,762
DEFENSE LOGISTICS AGENCY		
CONSTRUCTION IMPROVEMENTS	43	43
OPERATING EXPENSES		
FURNISHINGS ACCOUNT	14	
SERVICES ACCOUNT	15	
UTILITIES ACCOUNT	116	
OPERATING EXPENSES		145
MAINTENANCE OF REAL PROPERTY	456	456
TOTAL FAMILY HOUSING, DLA		644
GRAND TOTAL FAMILY HOUSING, DEFENSE		21,100
ARMY		
PAYMENT TO HOMEOWNERS	515	515
OTHER OPERATING COSTS	1,144	1,144
ACQUISITION OF REAL PROPERTY	2,206	2,206
MORTGAGES ASSUMED	1,435	1,435
ARMY		5,300

NEW ODD PAGE

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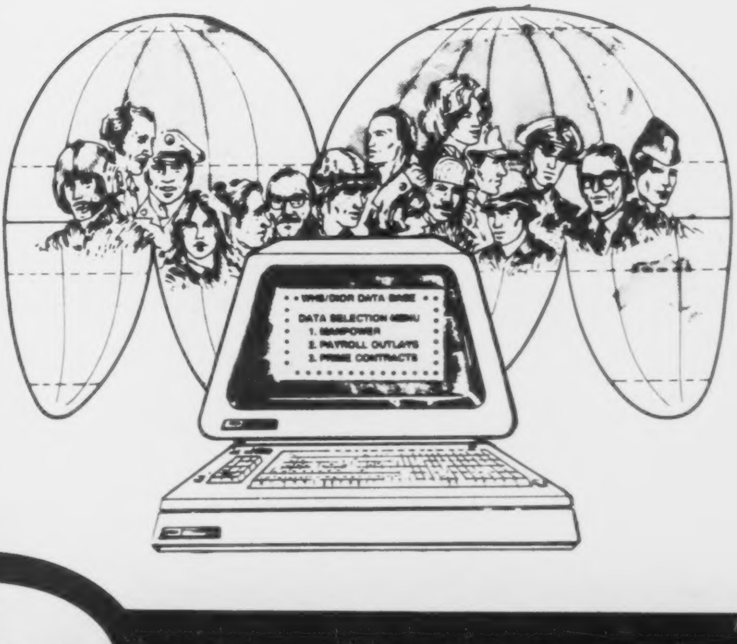
Department of Defense

ATLAS/DATA ABSTRACT FOR THE UNITED STATES AND SELECTED AREAS

Fiscal Year 1988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DATA SELECTION MENU
1. MANPOWER
2. PAYROLL OUTLAYS
3. PRIME CONTRACTS

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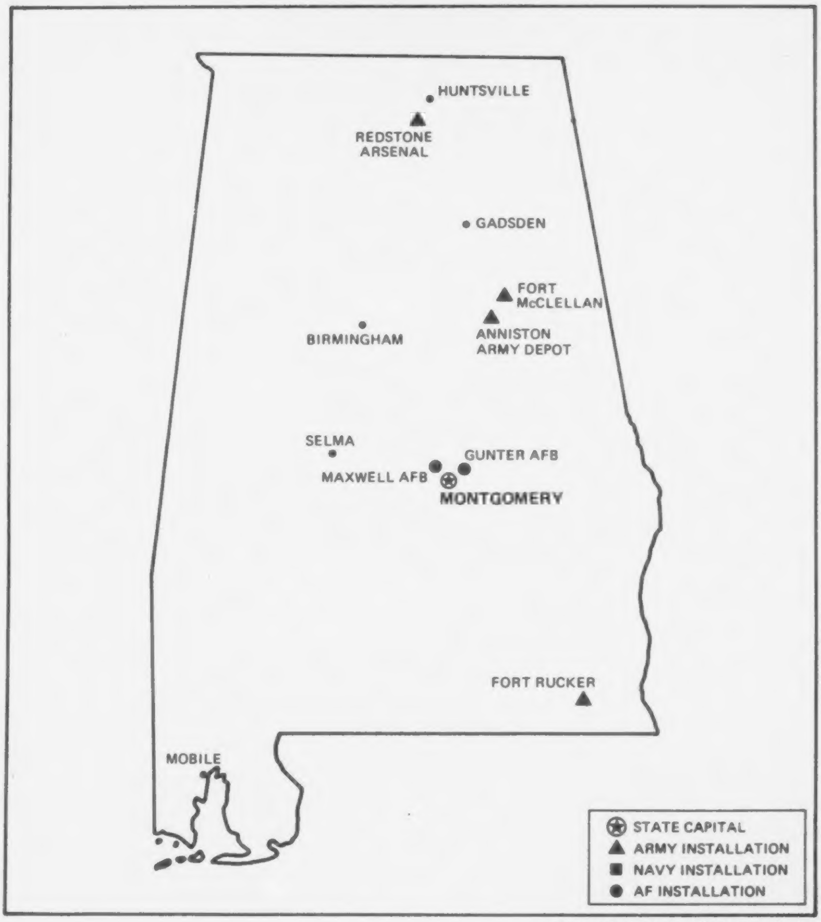
MAP NO. 1

ALABAMA


HUNTSVILLE
REDSTONE ARSENAL
GADSDEN
FORT McCLELLAN
ANNISTON ARMY DEPOT
BIRMINGHAM
SELMA
GUNTER AFB
MAXWELL AFB
MONTGOMERY
FORT RUCKER
MOBILE
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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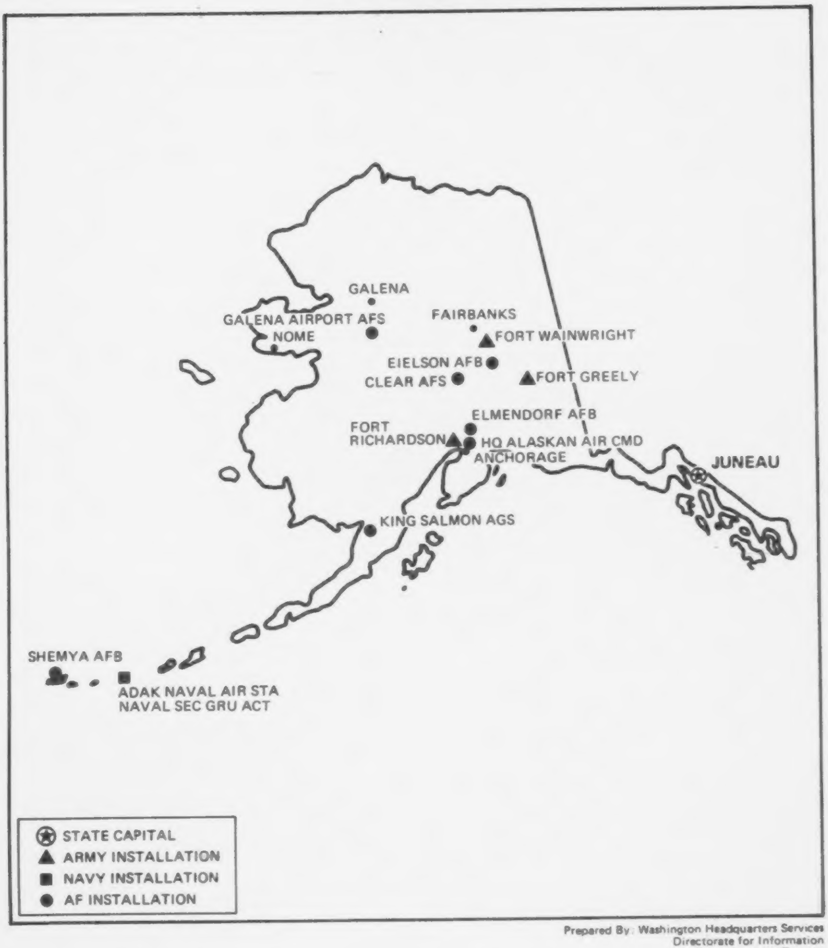
MAP NO. 2

ALASKA


GALENA
GALENA AIRPORT AFS
NOME
FAIRBANKS
FORT WAINWRIGHT
EIELSON AFB
CLEAR AFS
FORT GREELY
ELMENDORF AFB
FORT RICHARDSON
HQ ALASKAN AIR CMD
ANCHORAGE
JUNEAU
KING SALMON AGS
SHEMYA AFB
ADAK NAVAL AIR STA
NAVAL SEC GRU ACT
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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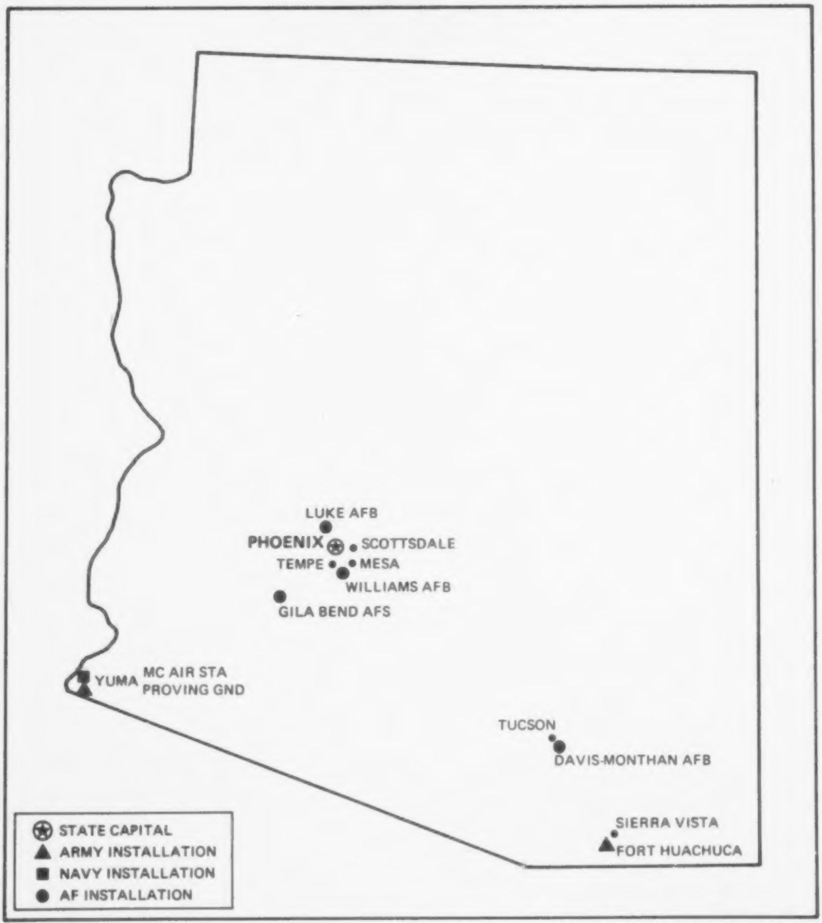
MAP NO. 3

ARIZONA


LUKE AFB
PHOENIX
SCOTTSDALE
TEMPE
MESA
WILLIAMS AFB
GILA BEND AFS
YUMA
MC AIR STA
PROVING GND
TUCSON
DAVIS-MONTHAN AFB
SIERRA VISTA
FORT HUACHUCA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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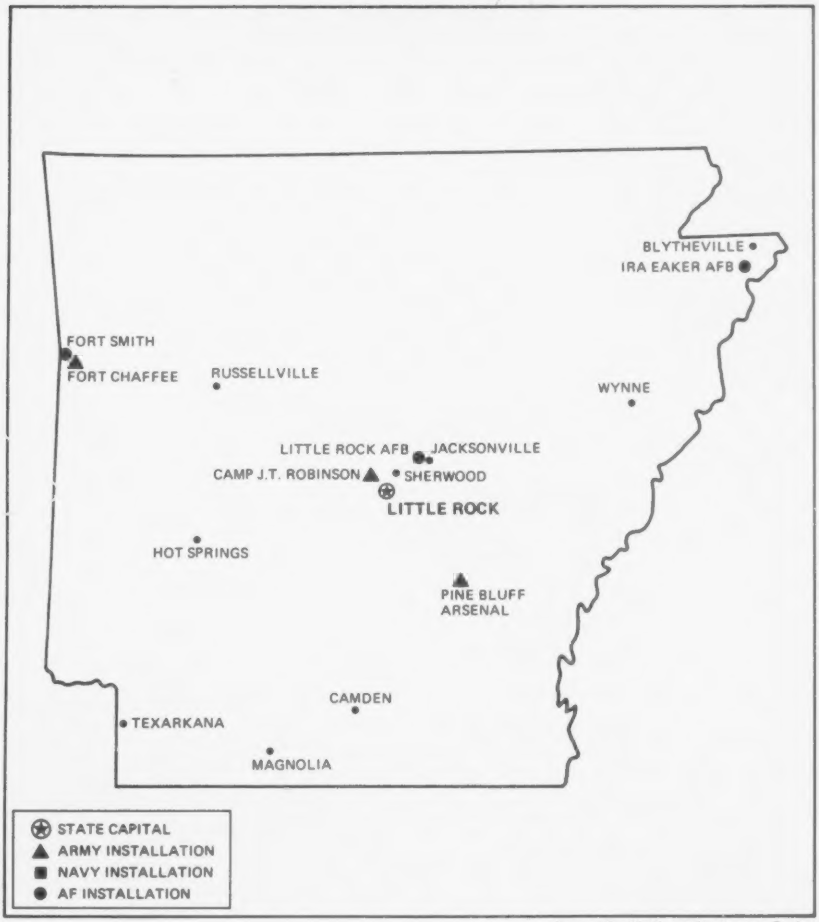
MAP NO. 4

ARKANSAS


BLYTHEVILLE
IRA EAKER AFB
FORT SMITH
FORT CHAFFEE
RUSSELLVILLE
WYNNE
LITTLE ROCK AFB
JACKSONVILLE
CAMP J.T. ROBINSON
SHERWOOD
LITTLE ROCK
HOT SPRINGS
PINE BLUFF ARSENAL
CAMDEN
TEXARKANA
MAGNOLIA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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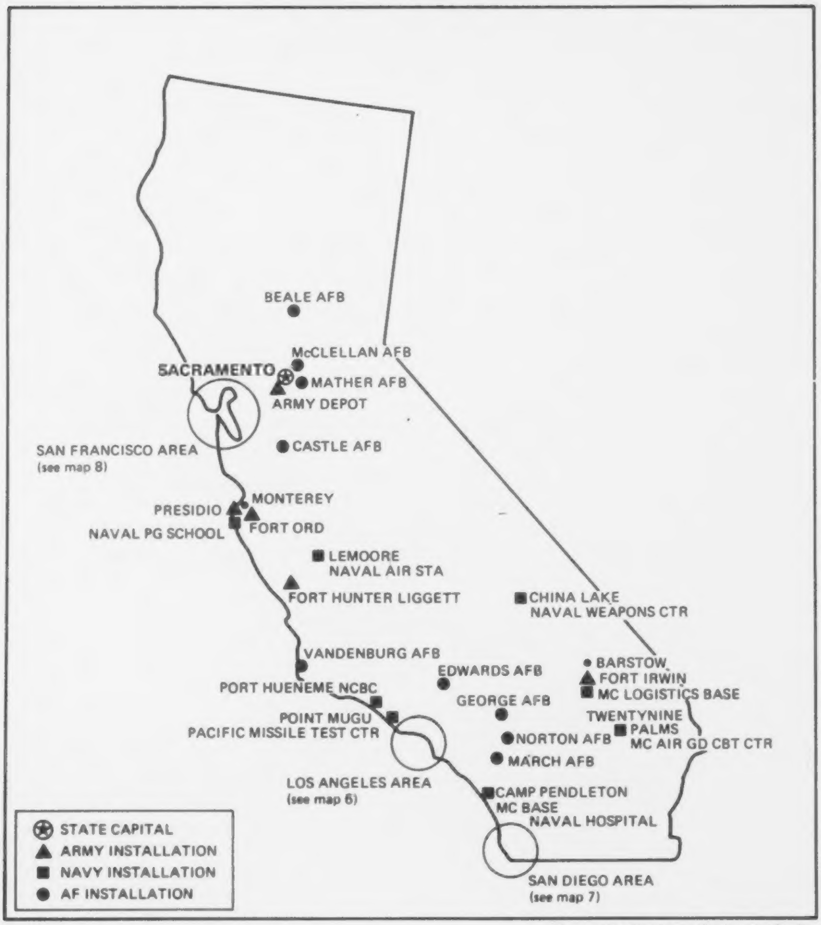
MAP NO. 5

CALIFORNIA


BEALE AFB
McCLELLAN AFB
SACRAMENTO
MATHER AFB
ARMY DEPOT
SAN FRANCISCO AREA
(see map 8)
CASTLE AFB
MONTEREY
PRESIDIO
FORT ORD
NAVAL PG SCHOOL
LEMOORE
NAVAL AIR STA
FORT HUNTER LIGGETT
CHINA LAKE
NAVAL WEAPONS CTR
VANDENBURG AFB
EDWARDS AFB
BARSTOW
FORT IRWIN
MC LOGISTICS BASE
PORT HUENEME NCBC
GEORGE AFB
POINT MUGU
PACIFIC MISSILE TEST CTR
TWENTYNINE
PALMS
MC AIR GD CBT CTR
NORTON AFB
MARCH AFB
LOS ANGELES AREA
(see map 6)
CAMP PENDLETON
MC BASE
NAVAL HOSPITAL
SAN DIEGO AREA
(see map 7)
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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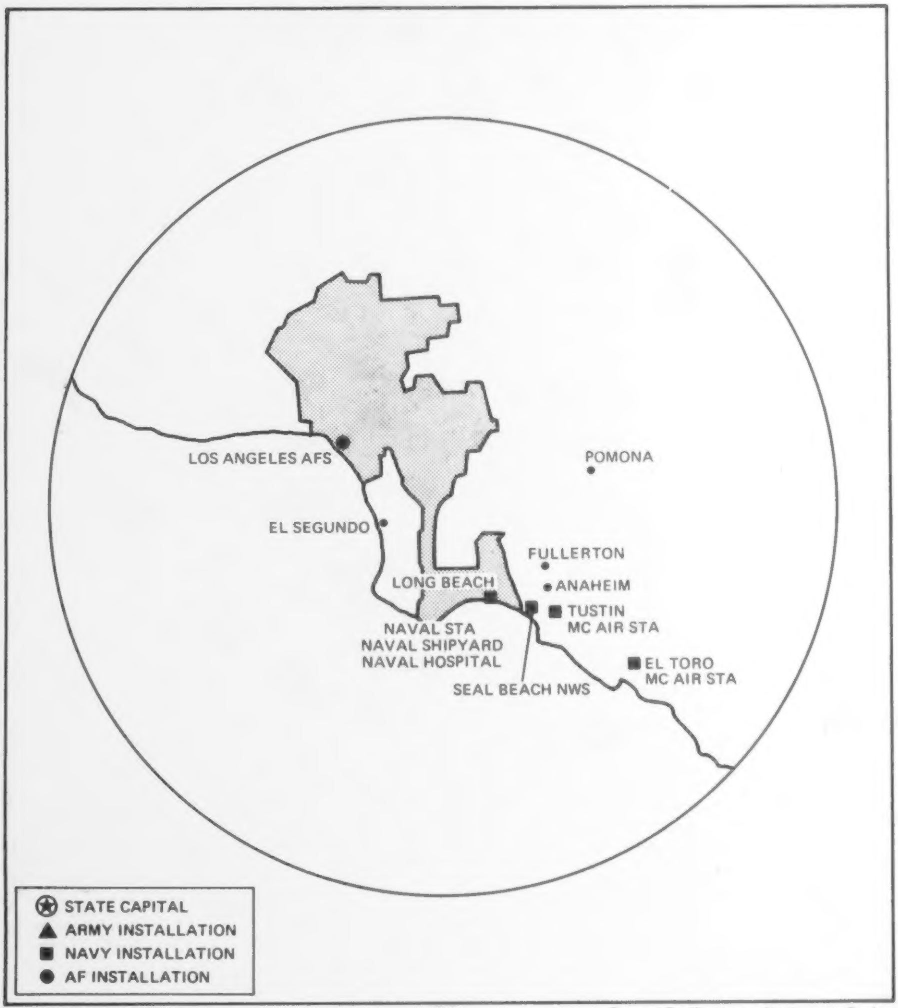
MAP NO. 6

LOS ANGELES AREA


LOS ANGELES AFS
POMONA
EL SEGUNDO
FULLERTON
LONG BEACH
ANAHEIM
TUSTIN MC AIR STA
NAVAL STA
NAVAL SHIPYARD
NAVAL HOSPITAL
EL TORO MC AIR STA
SEAL BEACH NWS
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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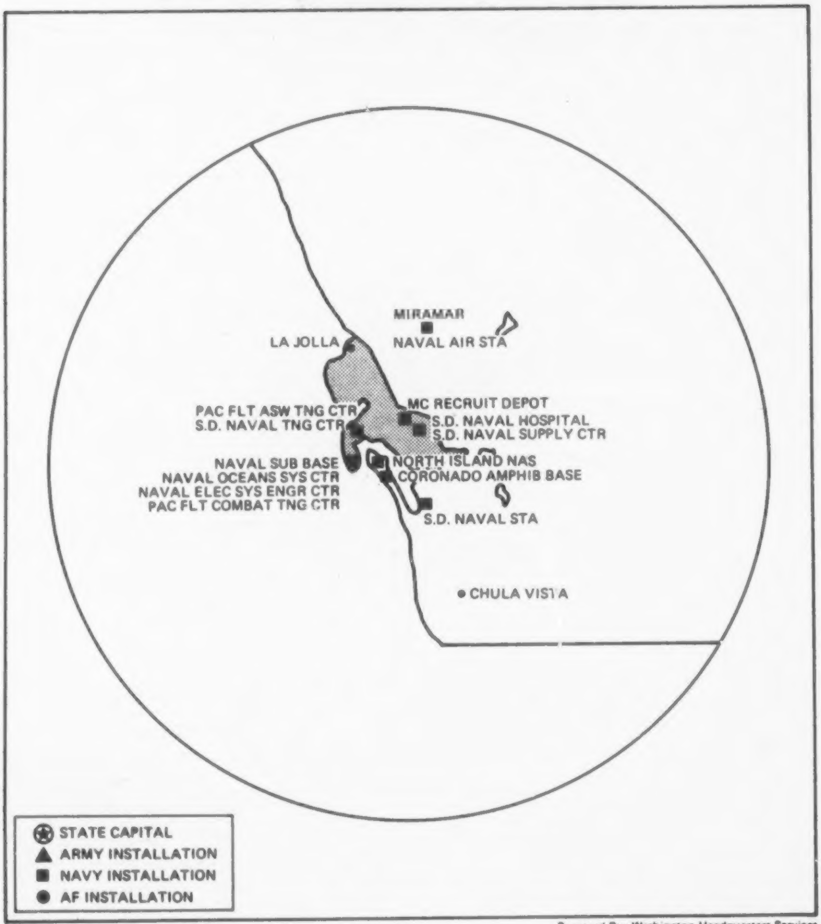
26-769 O—90——3

MAP NO. 7

SAN DIEGO AREA


MIRAMAR
NAVAL AIR STA
LA JOLLA
PAC FLT ASW TNG CTR
S.D. NAVAL TNG CTR
MC RECRUIT DEPOT
S.D. NAVAL HOSPITAL
S.D. NAVAL SUPPLY CTR
NAVAL SUB BASE
NAVAL OCEANS SYS CTR
NAVAL ELEC SYS ENGR CTR
PAC FLT COMBAT TNG CTR
NORTH ISLAND NAS
CORONADO AMPHIB BASE
S.D. NAVAL STA
CHULA VISTA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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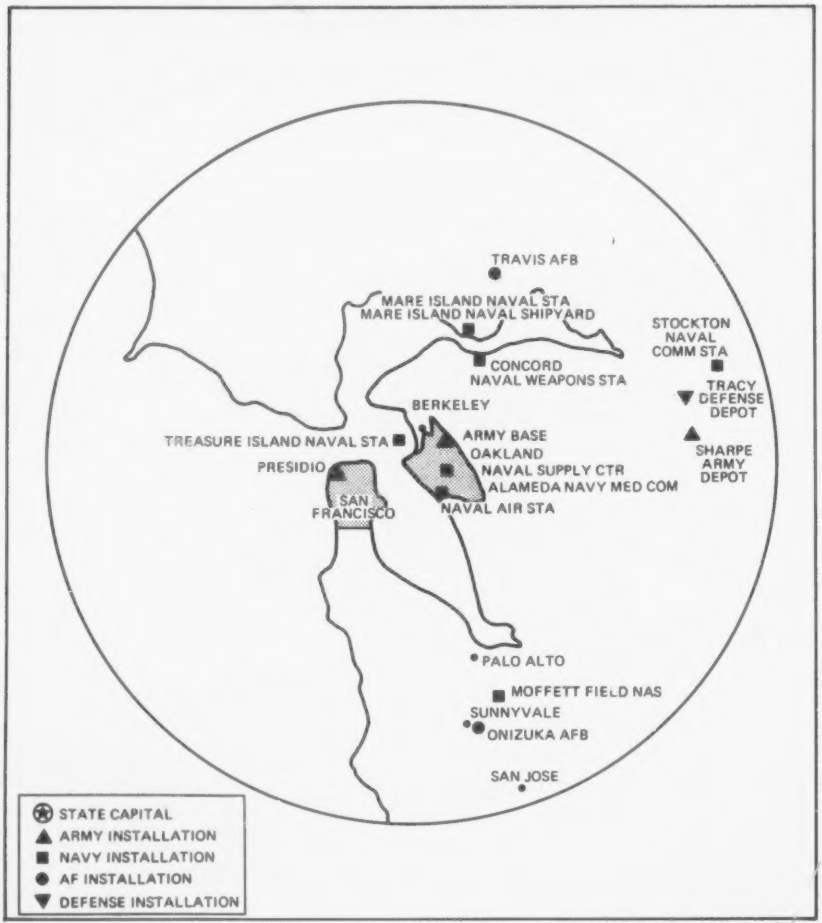
MAP NO. 8

SAN FRANCISCO AREA


TRAVIS AFB
MARE ISLAND NAVAL STA
MARE ISLAND NAVAL SHIPYARD
STOCKTON NAVAL COMM STA
CONCORD NAVAL WEAPONS STA
TRACY DEFENSE DEPOT
BERKELEY
TREASURE ISLAND NAVAL STA
ARMY BASE
OAKLAND
SHARPE ARMY DEPOT
PRESIDIO
NAVAL SUPPLY CTR
ALAMEDA NAVY MED COM
SAN FRANCISCO
NAVAL AIR STA
PALO ALTO
MOFFETT FIELD NAS
SUNNYVALE
ONIZUKA AFB
SAN JOSE
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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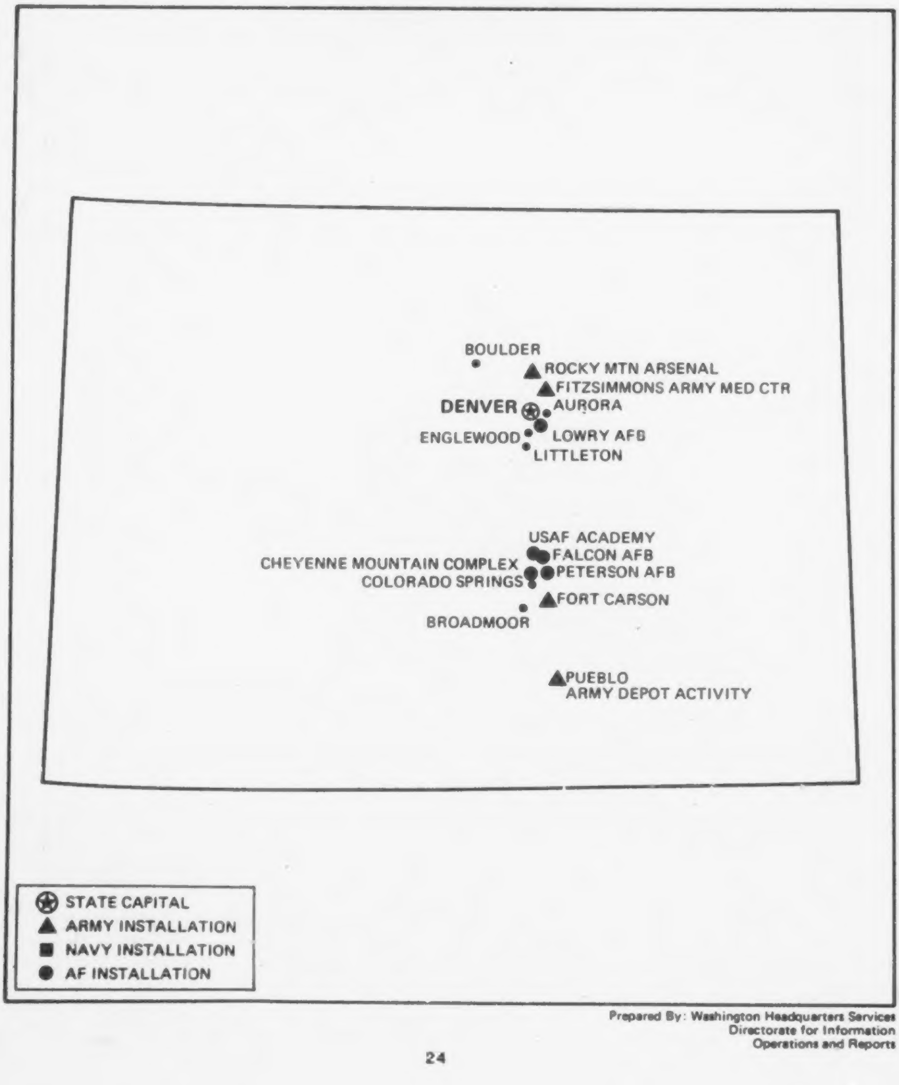
MAP NO. 9

COLORADO


BOULDER
ROCKY MTN ARSENAL
FITZSIMMONS ARMY MED CTR
DENVER
AURORA
ENGLEWOOD
LOWRY AFB
LITTLETON
USAF ACADEMY
FALCON AFB
CHEYENNE MOUNTAIN COMPLEX
PETERSON AFB
COLORADO SPRINGS
FORT CARSON
BROADMOOR
PUEBLO
ARMY DEPOT ACTIVITY
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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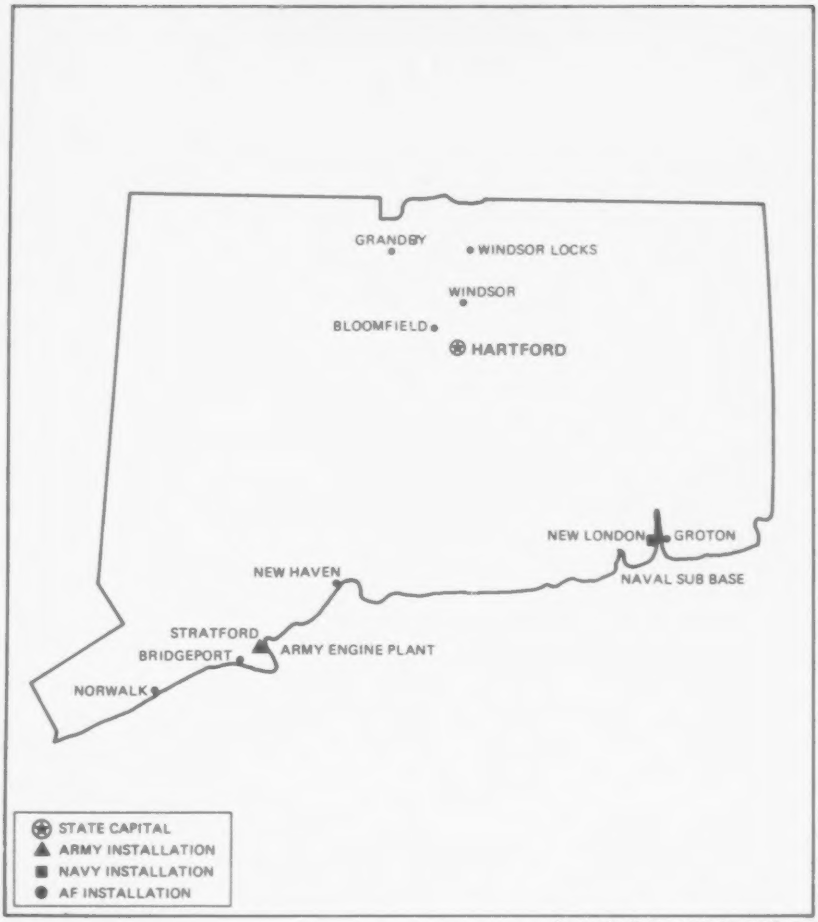
MAP NO. 10

CONNECTICUT


GRANDBY
WINDSOR LOCKS
WINDSOR
BLOOMFIELD
HARTFORD
NEW LONDON
GROTON
NAVAL SUB BASE
NEW HAVEN
STRATFORD
ARMY ENGINE PLANT
BRIDGEPORT
NORWALK
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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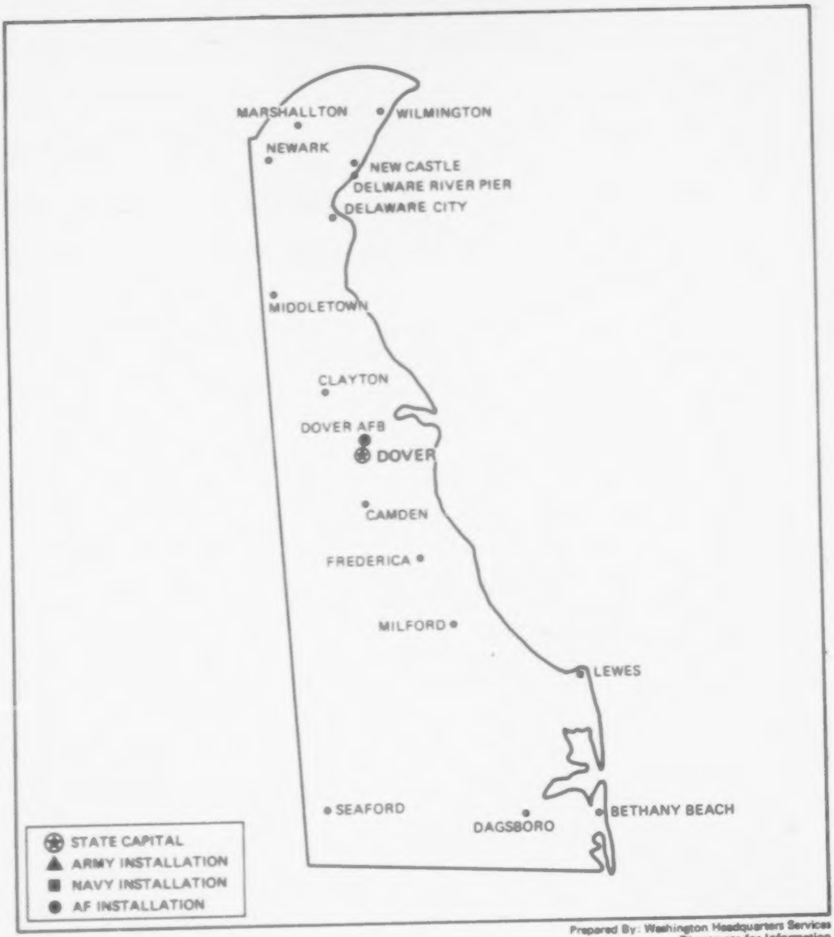
MAP NO. 11

DELAWARE


MARSHALLTON
WILMINGTON
NEWARK
NEW CASTLE
DELWARE RIVER PIER
DELAWARE CITY
MIDDLETOWN
CLAYTON
DOVER AFB
DOVER
CAMDEN
FREDERICA
MILFORD
LEWES
SEAFORD
DAGSBORO
BETHANY BEACH
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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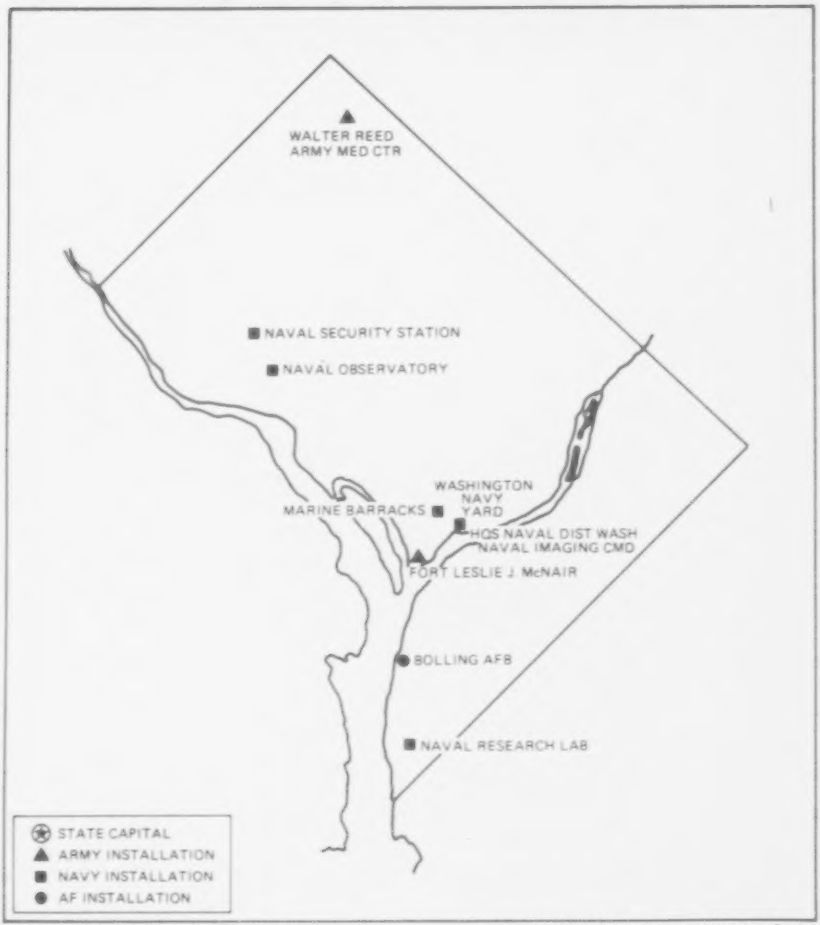
MAP NO. 12

DISTRICT OF COLUMBIA


WALTER REED
ARMY MED CTR
NAVAL SECURITY STATION
NAVAL OBSERVATORY
WASHINGTON
NAVY
YARD
MARINE BARRACKS
HQS NAVAL DIST WASH
NAVAL IMAGING CMD
FORT LESLIE J. McNAIR
BOLLING AFB
NAVAL RESEARCH LAB
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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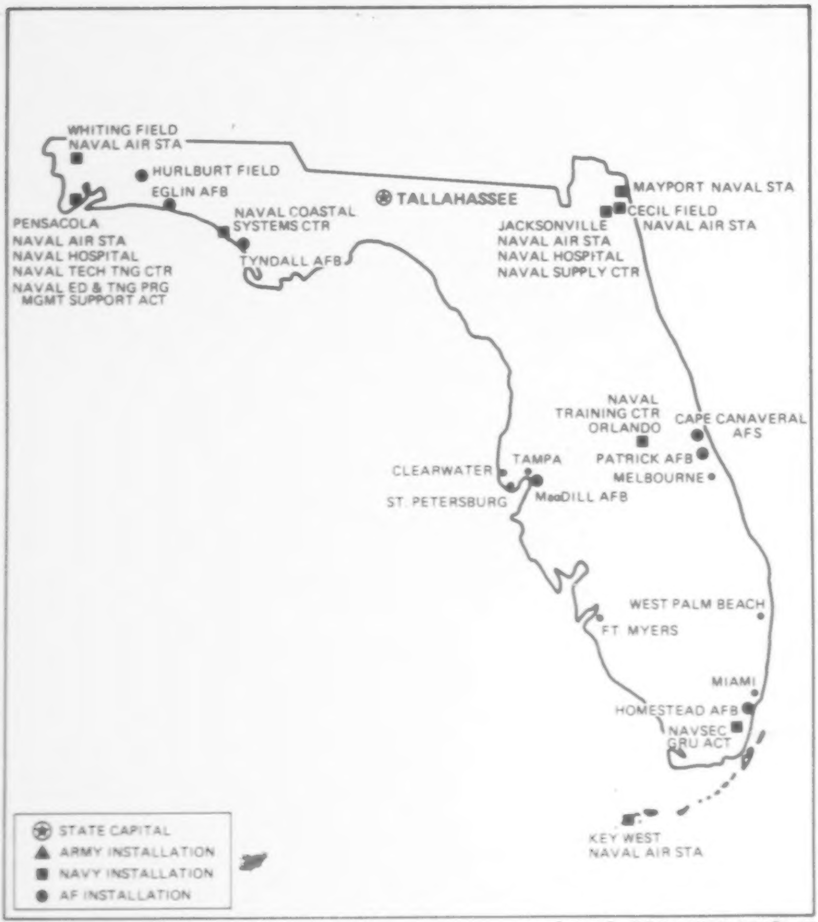
MAP NO. 13

FLORIDA


WHITING FIELD
NAVAL AIR STA
HURLBURT FIELD
EGLIN AFB
PENSACOLA
NAVAL AIR STA
NAVAL HOSPITAL
NAVAL TECH TNG CTR
NAVAL ED & TNG PRG
MGMT SUPPORT ACT
NAVAL COASTAL
SYSTEMS CTR
TYNDALL AFB
TALLAHASSEE
MAYPORT NAVAL STA
CECIL FIELD
NAVAL AIR STA
JACKSONVILLE
NAVAL AIR STA
NAVAL HOSPITAL
NAVAL SUPPLY CTR
NAVAL
TRAINING CTR
ORLANDO
CAPE CANAVERAL
AFS
PATRICK AFB
MELBOURNE
CLEARWATER
TAMPA
ST. PETERSBURG
MacDILL AFB
WEST PALM BEACH
FT. MYERS
MIAMI
HOMESTEAD AFB
NAVSEC
GRU ACT
KEY WEST
NAVAL AIR STA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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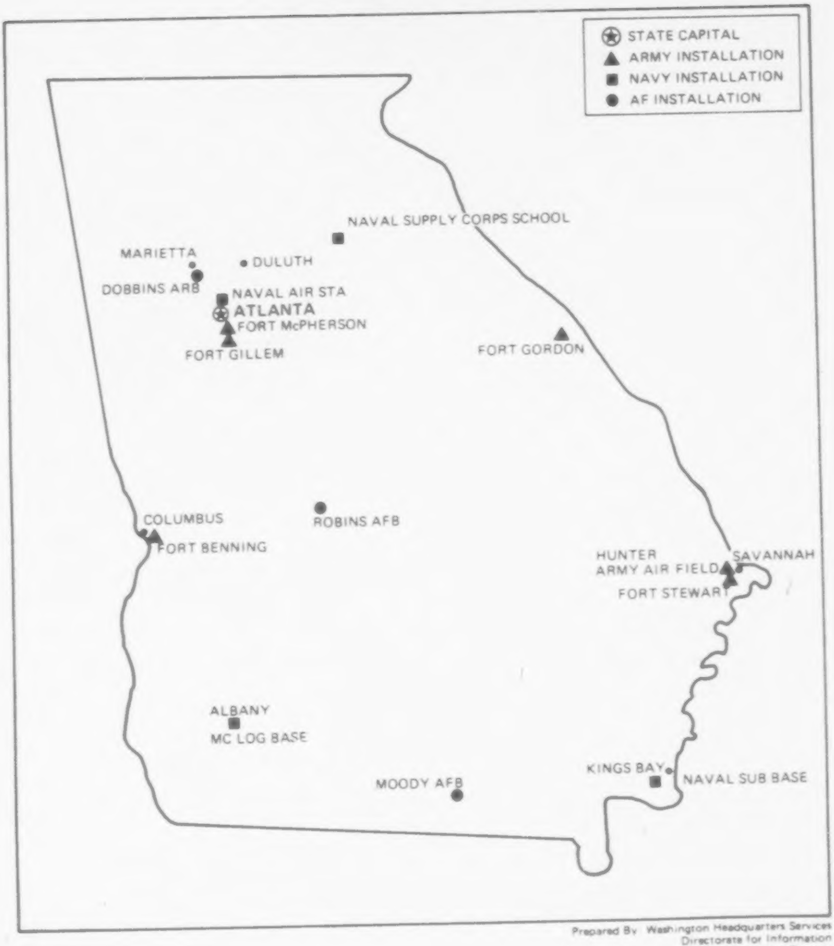
MAP NO. 14

GEORGIA


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
NAVAL SUPPLY CORPS SCHOOL
MARIETTA
DULUTH
DOBBINS ARB
NAVAL AIR STA
ATLANTA
FORT McPHERSON
FORT GILLEM
FORT GORDON
COLUMBUS
ROBINS AFB
FORT BENNING
HUNTER
ARMY AIR FIELD
SAVANNAH
FORT STEWART
ALBANY
MC LOG BASE
KINGS BAY
NAVAL SUB BASE
MOODY AFB

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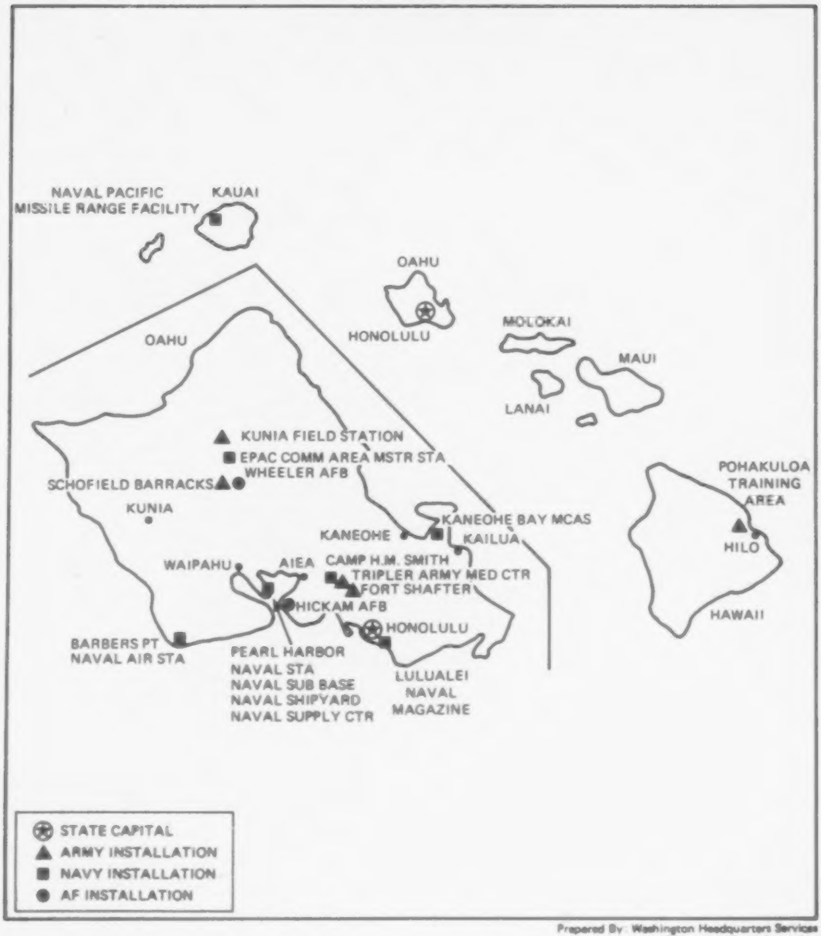
MAP NO. 15

HAWAII


NAVAL PACIFIC
MISSILE RANGE FACILITY
KAUAI
OAHU
HONOLULU
MOLOKAI
MAUI
LANAI
OAHU
KUNIA FIELD STATION
EPAC COMM AREA MSTR STA
WHEELER AFB
SCHOFIELD BARRACKS
KUNIA
KANEOHE
KANEOHE BAY MCAS
KAILUA
WAIPAHU
AIEA
CAMP H.M. SMITH
TRIPLER ARMY MED CTR
FORT SHAFTER
HICKAM AFB
HONOLULU
BARBERS PT
NAVAL AIR STA
PEARL HARBOR
NAVAL STA
NAVAL SUB BASE
NAVAL SHIPYARD
NAVAL SUPPLY CTR
LULUALEI
NAVAL
MAGAZINE
POHAKULOA
TRAINING
AREA
HILO
HAWAII
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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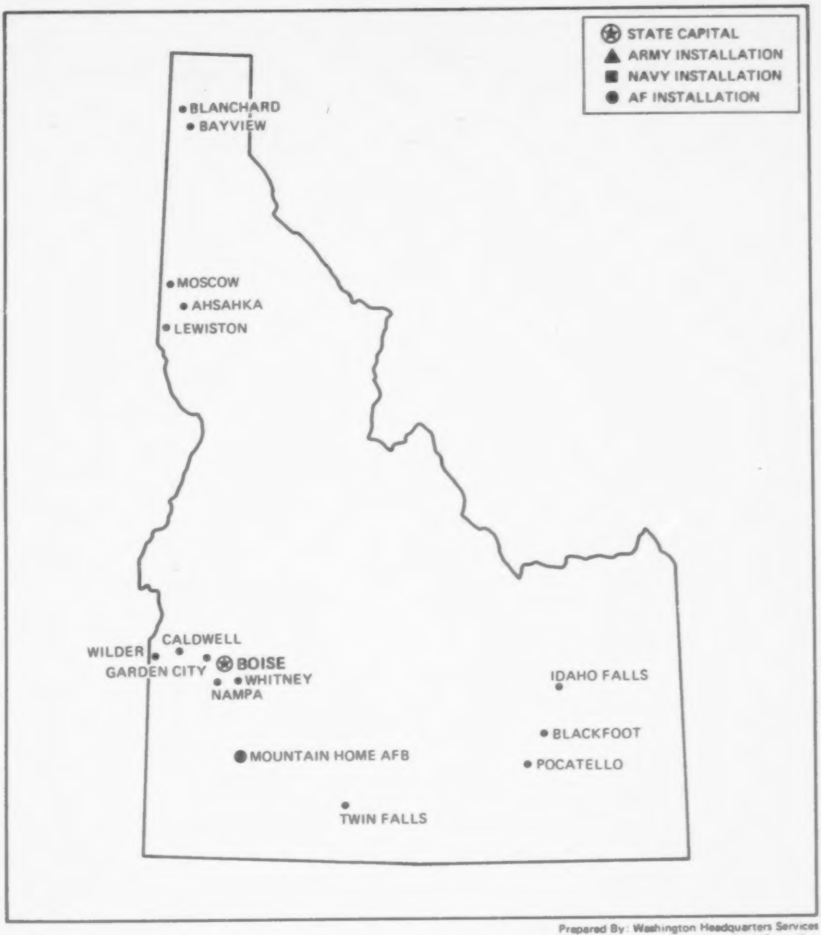
MAP NO. 16

IDAHO


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
BLANCHARD
BAYVIEW
MOSCOW
AHSAHKA
LEWISTON
CALDWELL
WILDER
BOISE
GARDEN CITY
WHITNEY
NAMPA
IDAHO FALLS
BLACKFOOT
MOUNTAIN HOME AFB
POCATELLO
TWIN FALLS

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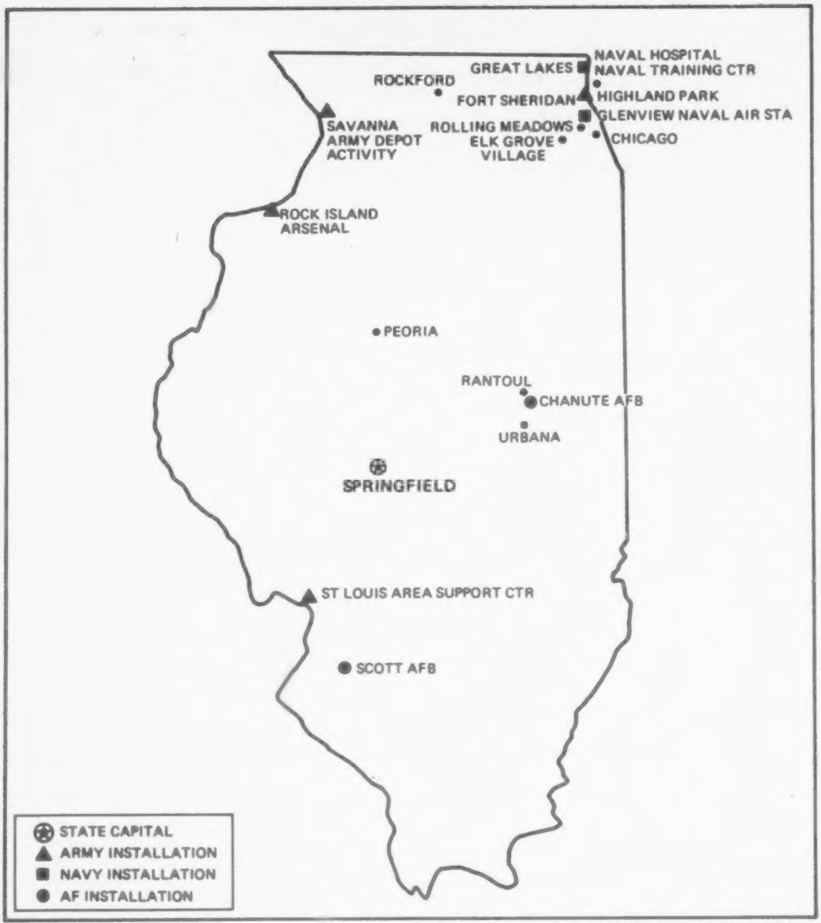
MAP NO. 17

ILLINOIS


NAVAL HOSPITAL
GREAT LAKES
NAVAL TRAINING CTR
ROCKFORD
FORT SHERIDAN
HIGHLAND PARK
GLENVIEW NAVAL AIR STA
SAVANNA ARMY DEPOT ACTIVITY
ROLLING MEADOWS
ELK GROVE VILLAGE
CHICAGO
ROCK ISLAND ARSENAL
PEORIA
RANTOUL
CHANUTE AFB
URBANA
SPRINGFIELD
ST LOUIS AREA SUPPORT CTR
SCOTT AFB
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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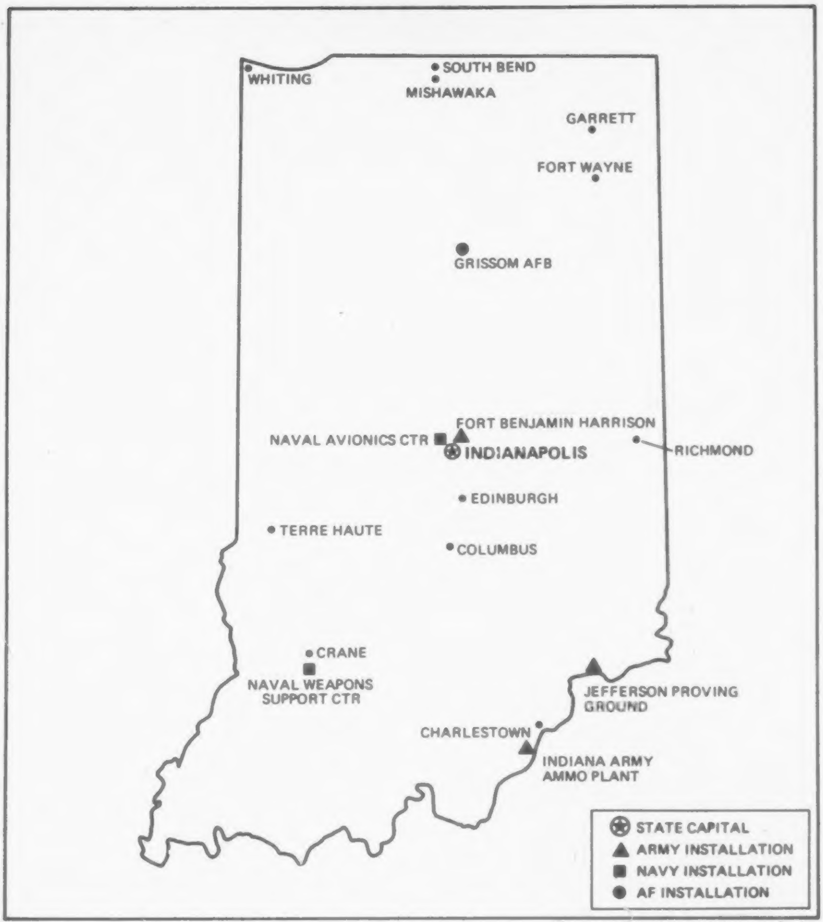
MAP NO. 18

INDIANA


WHITING
SOUTH BEND
MISHAWAKA
GARRETT
FORT WAYNE
GRISSOM AFB
FORT BENJAMIN HARRISON
NAVAL AVIONICS CTR
INDIANAPOLIS
RICHMOND
EDINBURGH
TERRE HAUTE
COLUMBUS
CRANE
NAVAL WEAPONS SUPPORT CTR
JEFFERSON PROVING GROUND
CHARLESTOWN
INDIANA ARMY AMMO PLANT
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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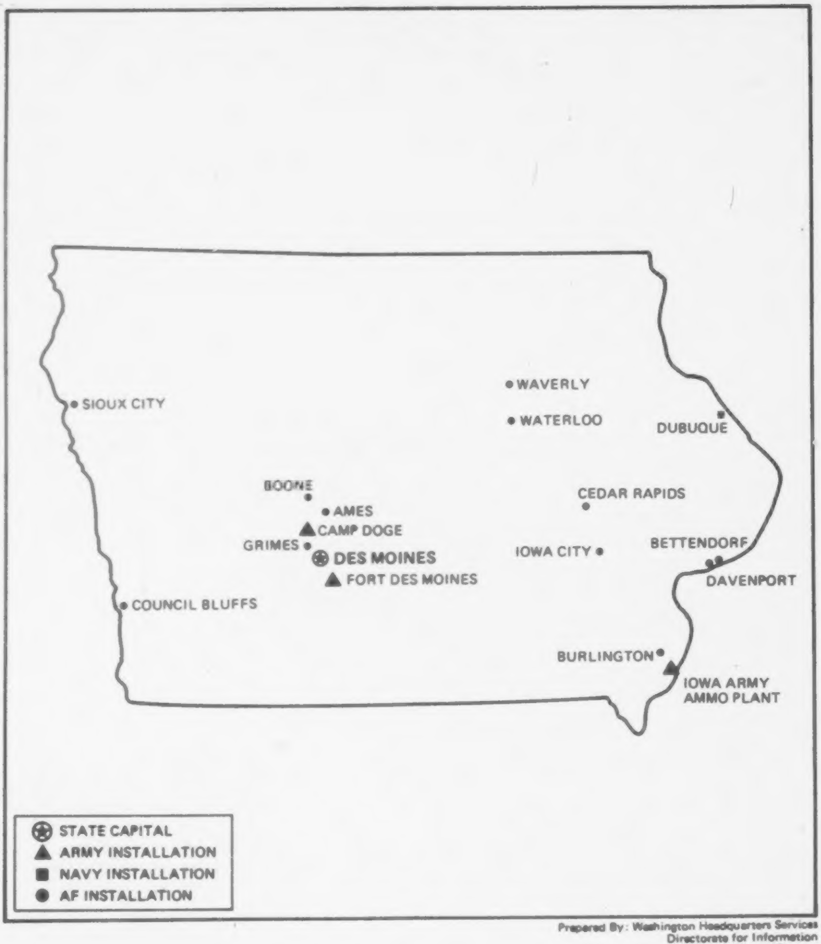
MAP NO. 19

IOWA


SIOUX CITY
WAVERLY
WATERLOO
DUBUQUE
BOONE
AMES
CAMP DOGE
GRIMES
DES MOINES
FORT DES MOINES
CEDAR RAPIDS
IOWA CITY
BETTENDORF
DAVENPORT
COUNCIL BLUFFS
BURLINGTON
IOWA ARMY AMMO PLANT
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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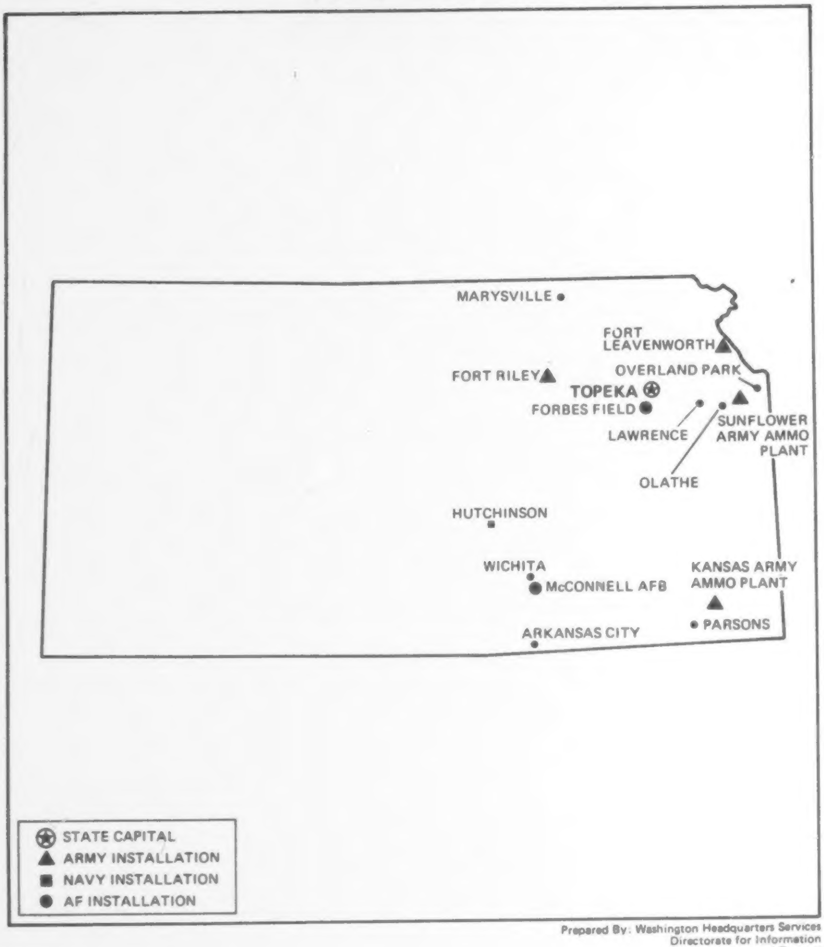
MAP NO. 20

KANSAS


MARYSVILLE
FORT LEAVENWORTH
FORT RILEY
OVERLAND PARK
TOPEKA
FORBES FIELD
LAWRENCE
SUNFLOWER ARMY AMMO PLANT
OLATHE
HUTCHINSON
WICHITA
McCONNELL AFB
KANSAS ARMY AMMO PLANT
PARSONS
ARKANSAS CITY
⊛ STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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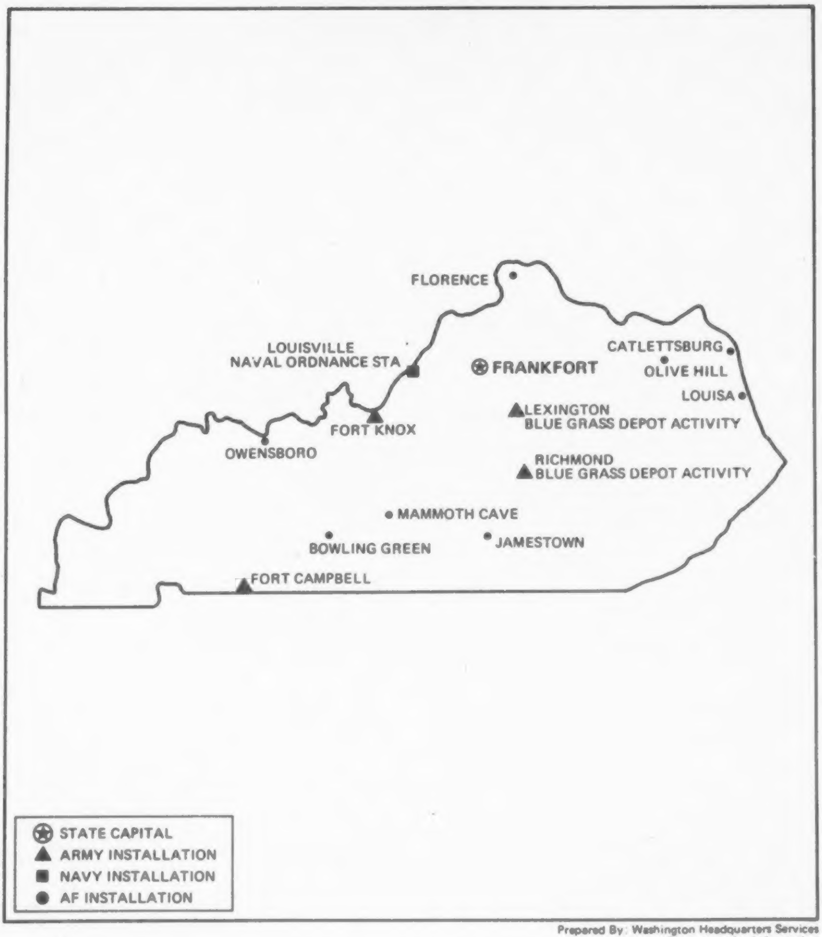
MAP NO. 21

KENTUCKY


FLORENCE
LOUISVILLE
NAVAL ORDNANCE STA
FRANKFORT
CATLETTSBURG
OLIVE HILL
LOUISA
LEXINGTON
BLUE GRASS DEPOT ACTIVITY
FORT KNOX
OWENSBORO
RICHMOND
BLUE GRASS DEPOT ACTIVITY
MAMMOTH CAVE
BOWLING GREEN
JAMESTOWN
FORT CAMPBELL
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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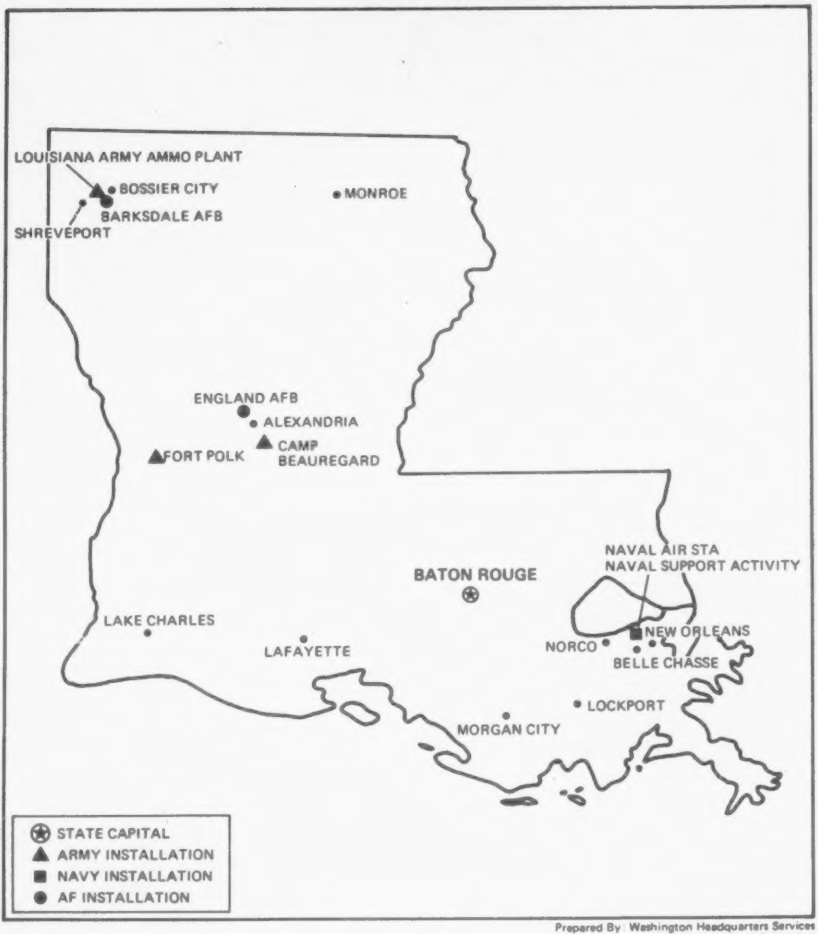
MAP NO. 22

LOUISIANA


LOUISIANA ARMY AMMO PLANT
BOSSIER CITY
BARKSDALE AFB
SHREVEPORT
MONROE
ENGLAND AFB
ALEXANDRIA
FORT POLK
CAMP BEAUREGARD
NAVAL AIR STA
NAVAL SUPPORT ACTIVITY
BATON ROUGE
LAKE CHARLES
LAFAYETTE
NEW ORLEANS
NORCO
BELLE CHASSE
LOCKPORT
MORGAN CITY
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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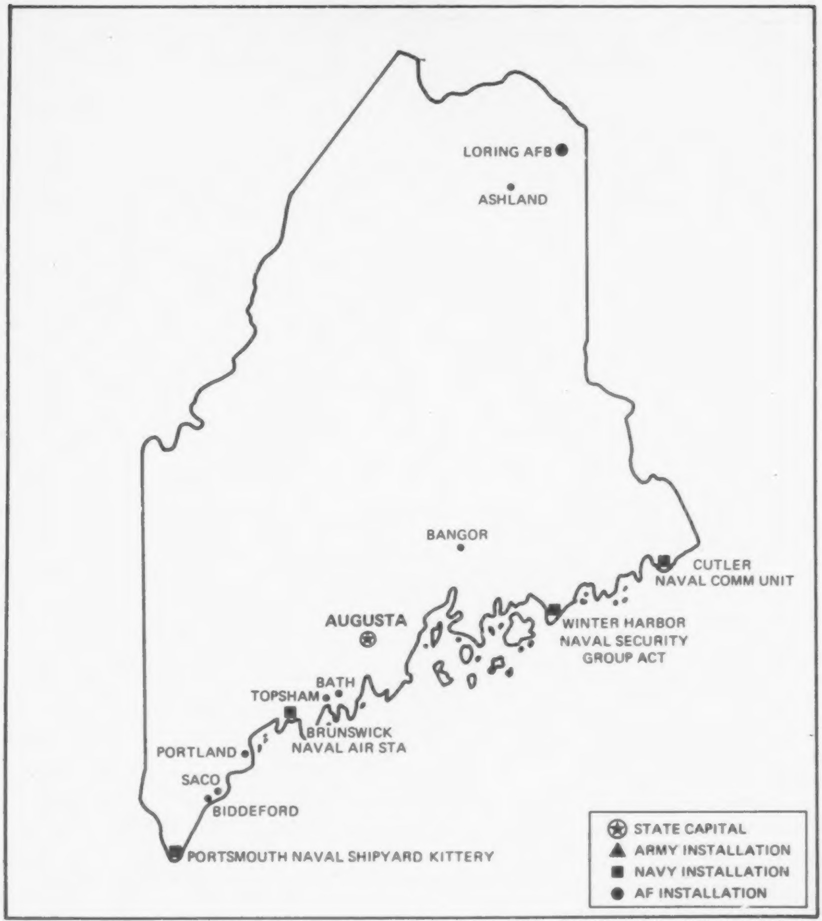
MAP NO. 23

MAINE


LORING AFB
ASHLAND
BANGOR
CUTLER
NAVAL COMM UNIT
AUGUSTA
WINTER HARBOR
NAVAL SECURITY
GROUP ACT
BATH
TOPSHAM
BRUNSWICK
NAVAL AIR STA
PORTLAND
SACO
BIDDEFORD
PORTSMOUTH NAVAL SHIPYARD KITTERY
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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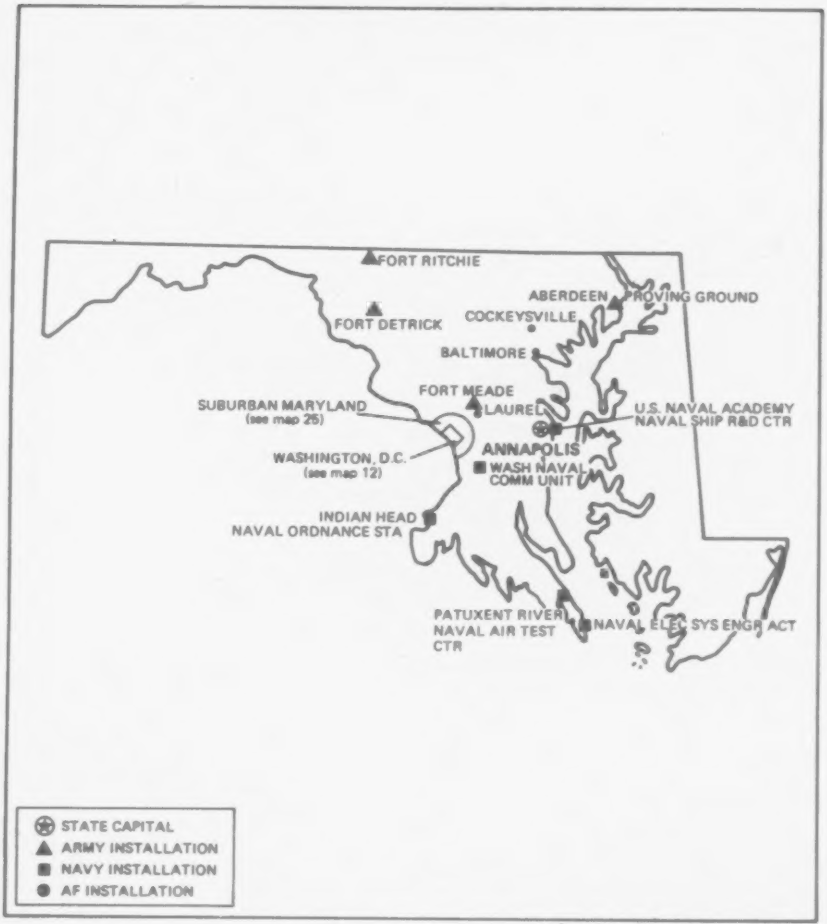
MAP NO. 24

MARYLAND


FORT RITCHIE
ABERDEEN PROVING GROUND
FORT DETRICK
COCKEYSVILLE
BALTIMORE
FORT MEADE
LAUREL
SUBURBAN MARYLAND
(see map 25)
U.S. NAVAL ACADEMY
NAVAL SHIP R&D CTR
ANNAPOLIS
WASHINGTON, D.C.
(see map 12)
WASH NAVAL
COMM UNIT
INDIAN HEAD
NAVAL ORDNANCE STA
PATUXENT RIVER
NAVAL AIR TEST
CTR
NAVAL ELEC SYS ENGR ACT
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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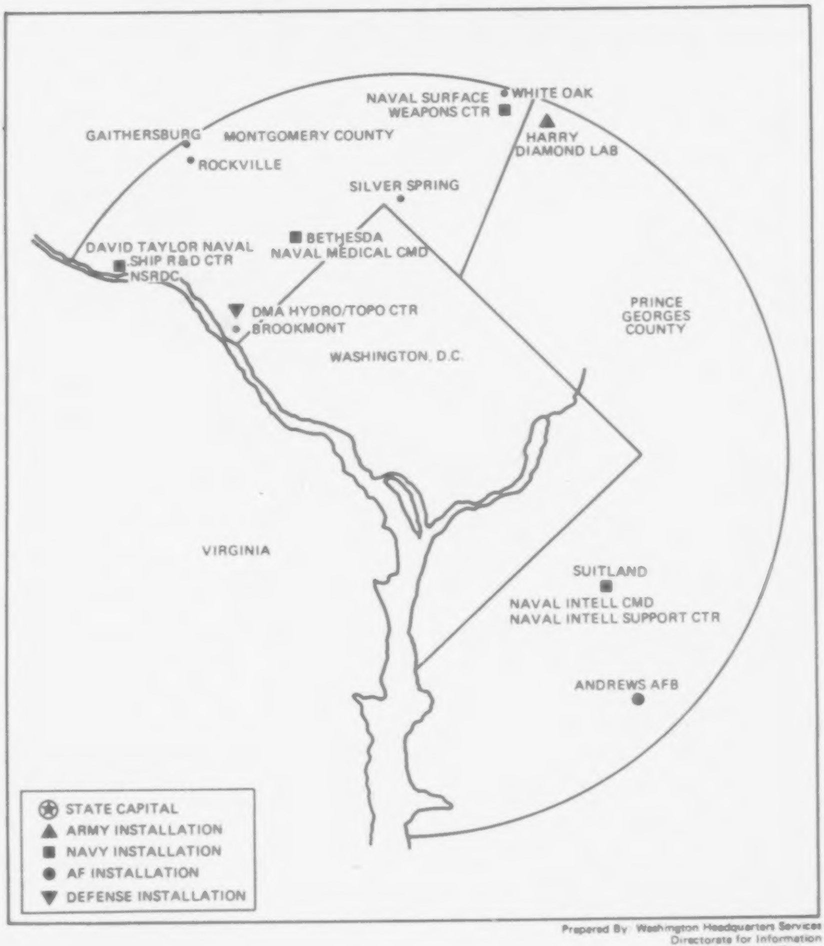
MAP NO. 25

SUBURBAN MARYLAND


NAVAL SURFACE WEAPONS CTR
WHITE OAK
GAITHERSBURG
MONTGOMERY COUNTY
HARRY DIAMOND LAB
ROCKVILLE
SILVER SPRING
BETHESDA NAVAL MEDICAL CMD
DAVID TAYLOR NAVAL SHIP R&D CTR
NSRDC
DMA HYDRO/TOPO CTR
BROOKMONT
PRINCE GEORGES COUNTY
WASHINGTON, D.C.
VIRGINIA
SUITLAND
NAVAL INTELL CMD
NAVAL INTELL SUPPORT CTR
ANDREWS AFB
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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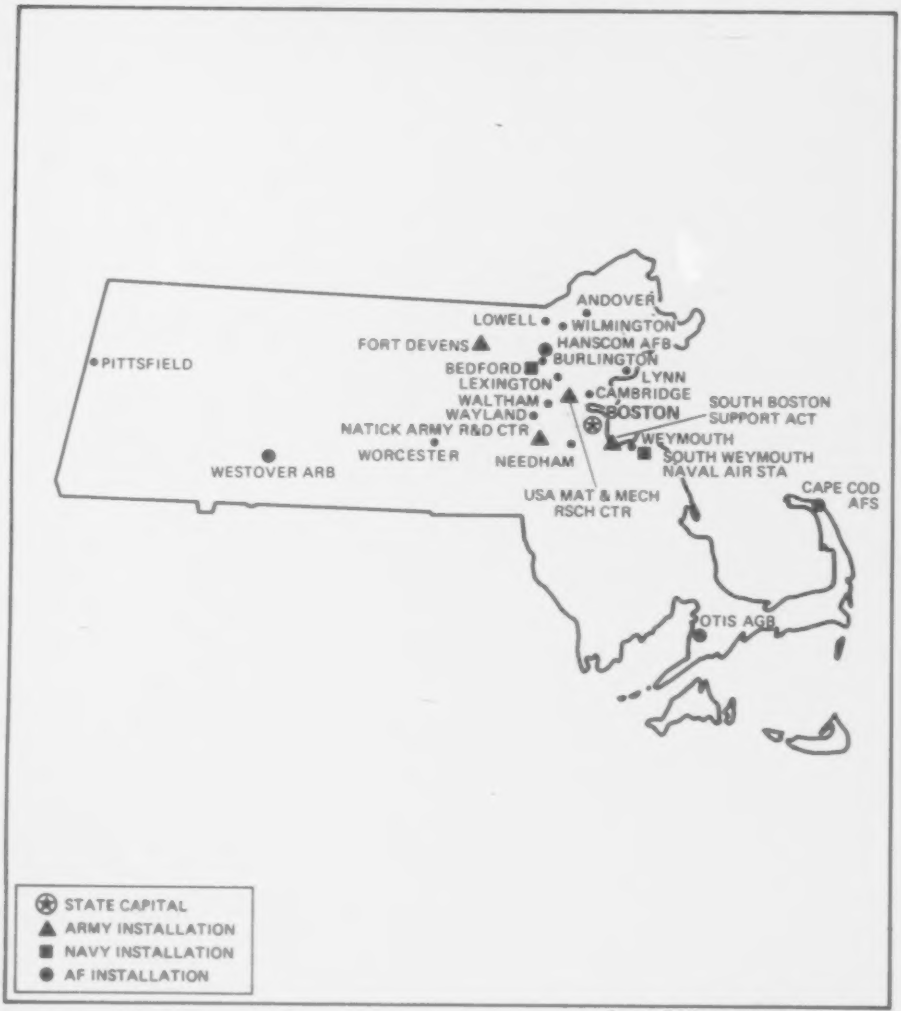
MAP NO. 26

MASSACHUSETTS


ANDOVER
LOWELL
WILMINGTON
FORT DEVENS
HANSCOM AFB
PITTSFIELD
BEDFORD
BURLINGTON
LEXINGTON
LYNN
WALTHAM
CAMBRIDGE
SOUTH BOSTON SUPPORT ACT
WAYLAND
BOSTON
NATICK ARMY R&D CTR
WEYMOUTH
WORCESTER
NEEDHAM
SOUTH WEYMOUTH NAVAL AIR STA
WESTOVER ARB
USA MAT & MECH RSCH CTR
CAPE COD AFS
OTIS AGB
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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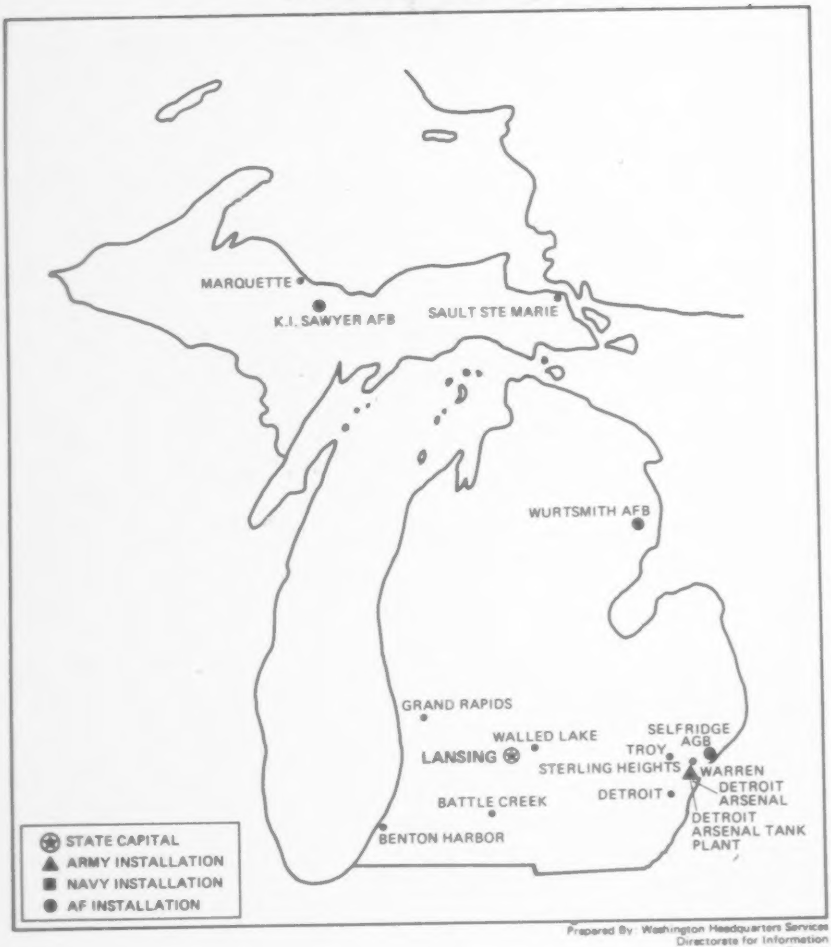
MAP NO. 27

MICHIGAN


MARQUETTE
K.I. SAWYER AFB
SAULT STE MARIE
WURTSMITH AFB
GRAND RAPIDS
WALLED LAKE
SELFRIDGE AGB
TROY
LANSING
STERLING HEIGHTS
WARREN
DETROIT
DETROIT ARSENAL
BATTLE CREEK
DETROIT ARSENAL TANK PLANT
BENTON HARBOR
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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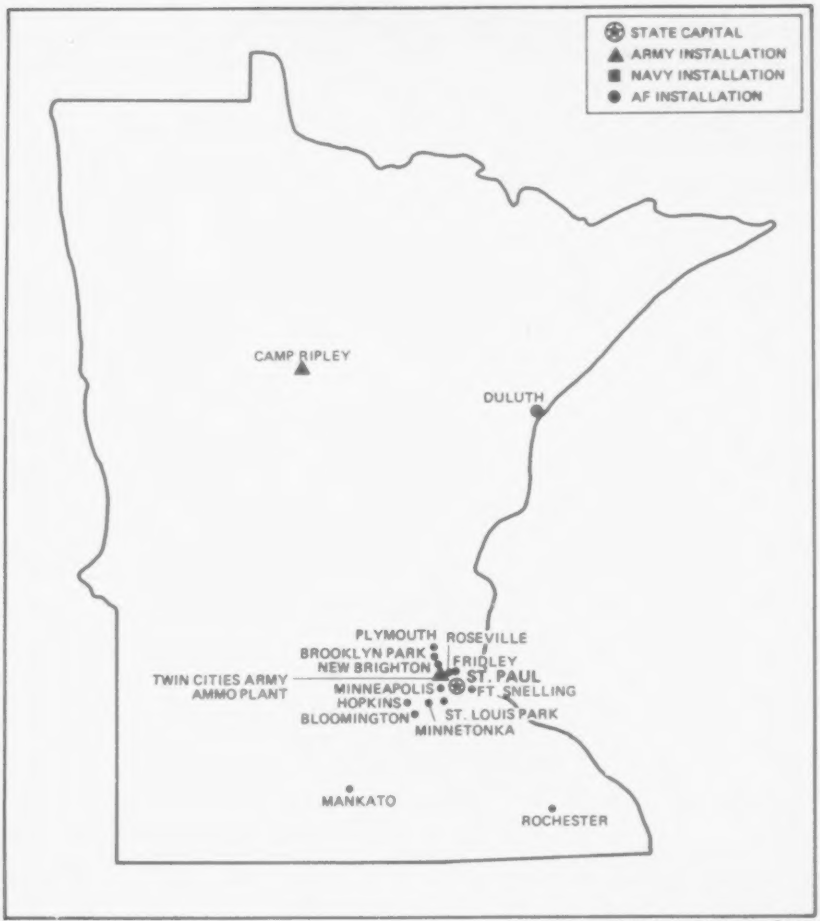
MAP NO. 28

MINNESOTA


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
CAMP RIPLEY
DULUTH
PLYMOUTH
ROSEVILLE
BROOKLYN PARK
FRIDLEY
NEW BRIGHTON
ST. PAUL
TWIN CITIES ARMY AMMO PLANT
MINNEAPOLIS
FT. SNELLING
HOPKINS
ST. LOUIS PARK
BLOOMINGTON
MINNETONKA
MANKATO
ROCHESTER

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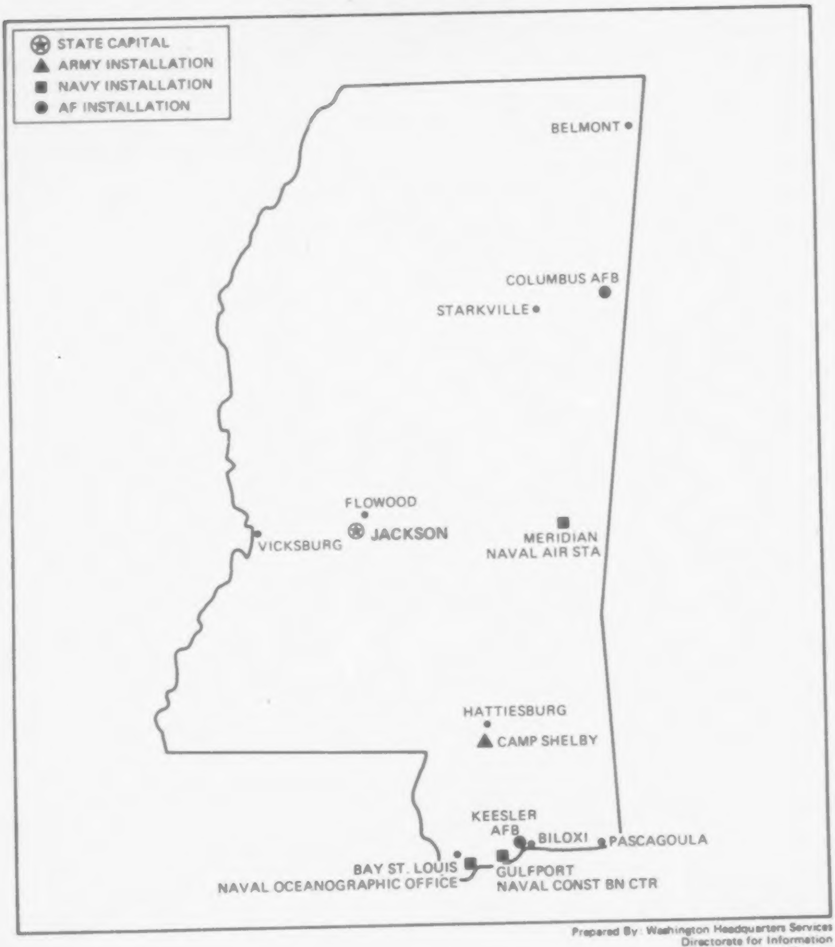
MAP NO. 29

MISSISSIPPI


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
BELMONT
COLUMBUS AFB
STARKVILLE
FLOWOOD
VICKSBURG
JACKSON
MERIDIAN
NAVAL AIR STA
HATTIESBURG
CAMP SHELBY
KEESLER
AFB
BILOXI
PASCAGOULA
BAY ST. LOUIS
NAVAL OCEANOGRAPHIC OFFICE
GULFPORT
NAVAL CONST BN CTR

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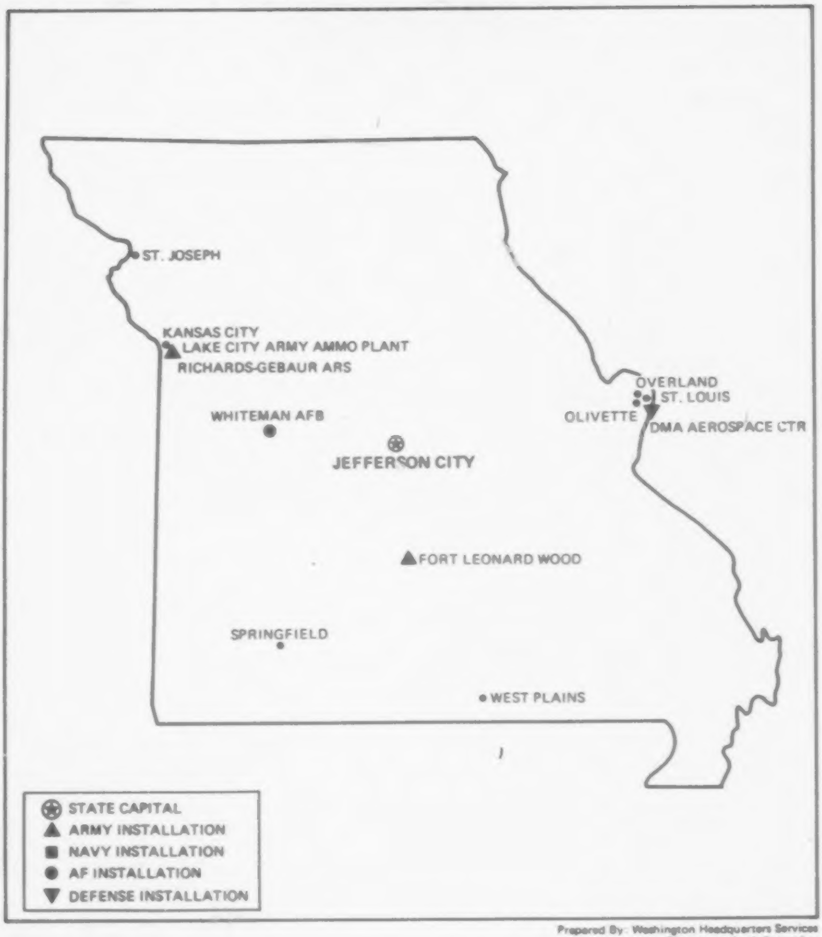
MAP NO. 30

MISSOURI


ST. JOSEPH
KANSAS CITY
LAKE CITY ARMY AMMO PLANT
RICHARDS-GEBAUR ARS
WHITEMAN AFB
JEFFERSON CITY
OVERLAND
ST. LOUIS
OLIVETTE
DMA AEROSPACE CTR
FORT LEONARD WOOD
SPRINGFIELD
WEST PLAINS
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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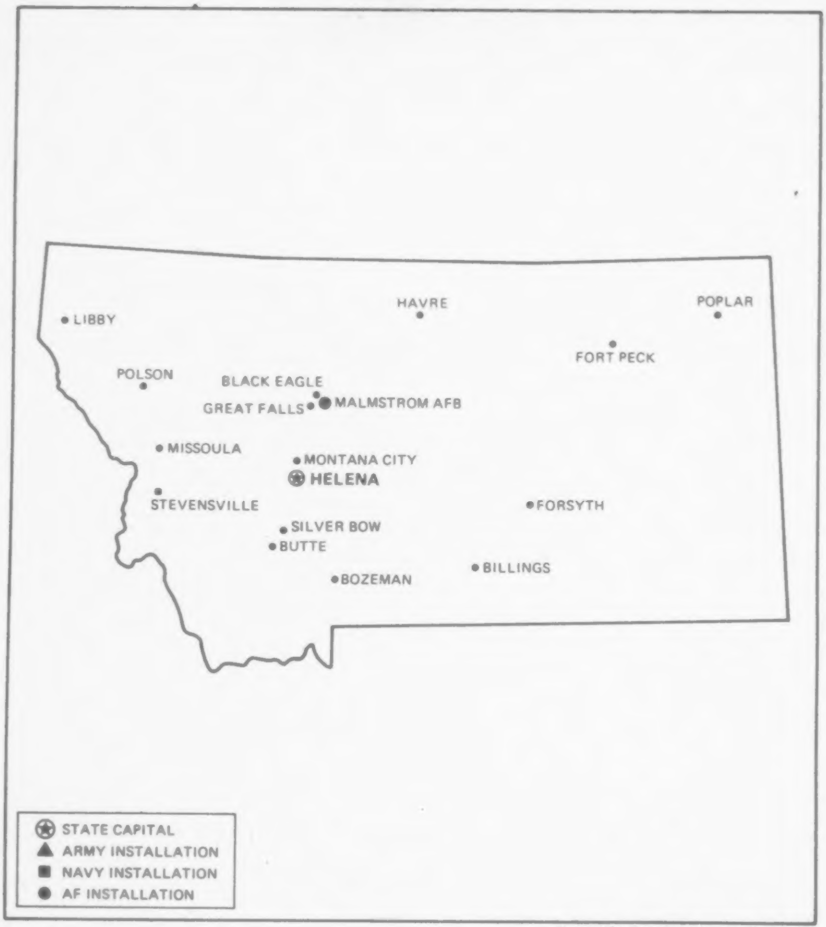
MAP NO. 31

MONTANA


LIBBY
HAVRE
POPLAR
FORT PECK
POLSON
BLACK EAGLE
GREAT FALLS
MALMSTROM AFB
MISSOULA
MONTANA CITY
HELENA
STEVENSVILLE
FORSYTH
SILVER BOW
BUTTE
BOZEMAN
BILLINGS
STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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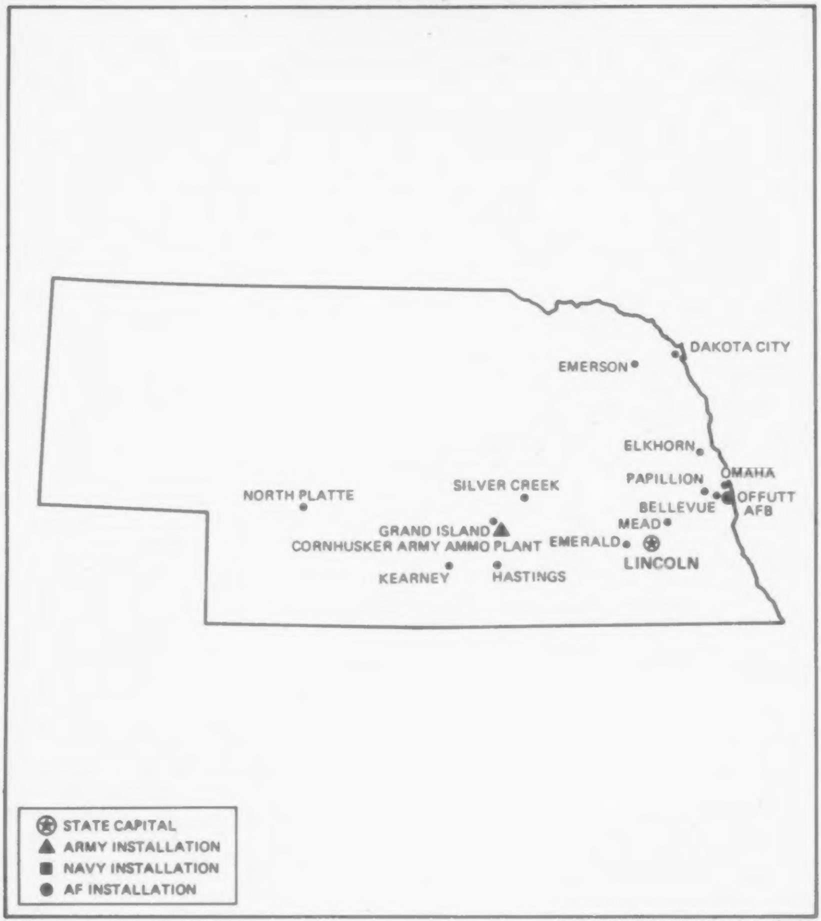
MAP NO. 32

NEBRASKA


DAKOTA CITY
EMERSON
ELKHORN
OMAHA
PAPILLION
OFFUTT AFB
BELLEVUE
NORTH PLATTE
SILVER CREEK
MEAD
GRAND ISLAND
CORNHUSKER ARMY AMMO PLANT
EMERALD
LINCOLN
KEARNEY
HASTINGS
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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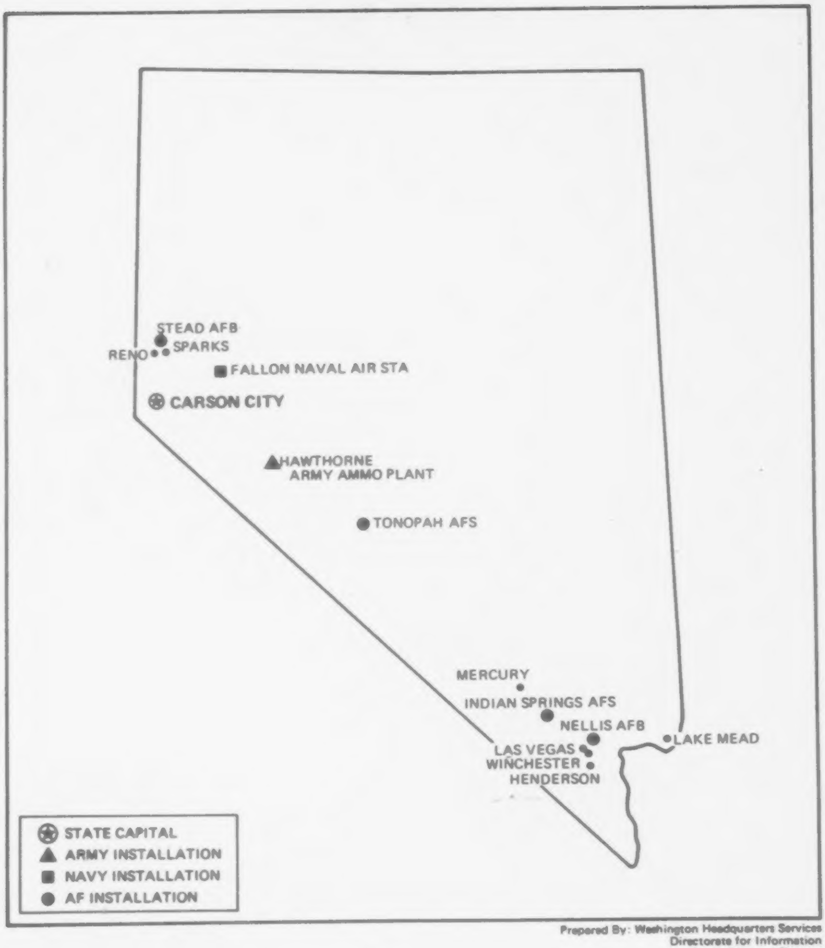
MAP NO. 33

NEVADA


STEAD AFB
RENO
SPARKS
FALLON NAVAL AIR STA
CARSON CITY
HAWTHORNE ARMY AMMO PLANT
TONOPAH AFS
MERCURY
INDIAN SPRINGS AFS
NELLIS AFB
LAKE MEAD
LAS VEGAS
WINCHESTER
HENDERSON
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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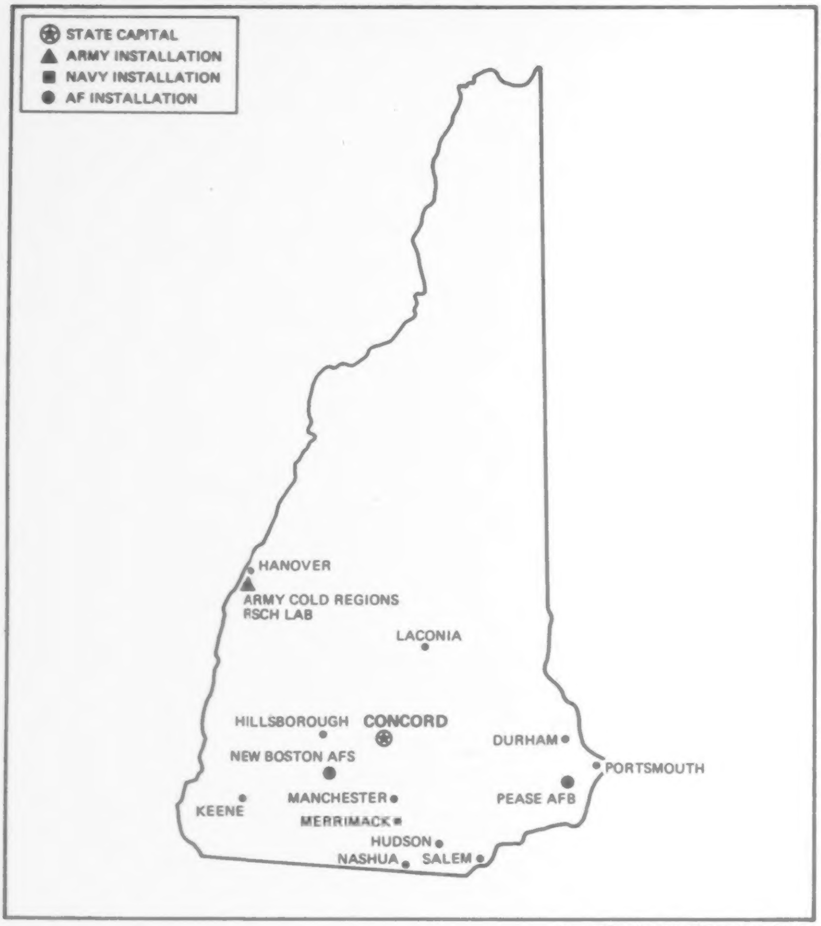
MAP NO. 34

NEW HAMPSHIRE


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
HANOVER
ARMY COLD REGIONS RSCH LAB
LACONIA
HILLSBOROUGH
CONCORD
DURHAM
NEW BOSTON AFS
PORTSMOUTH
KEENE
MANCHESTER
PEASE AFB
MERRIMACK
HUDSON
NASHUA
SALEM

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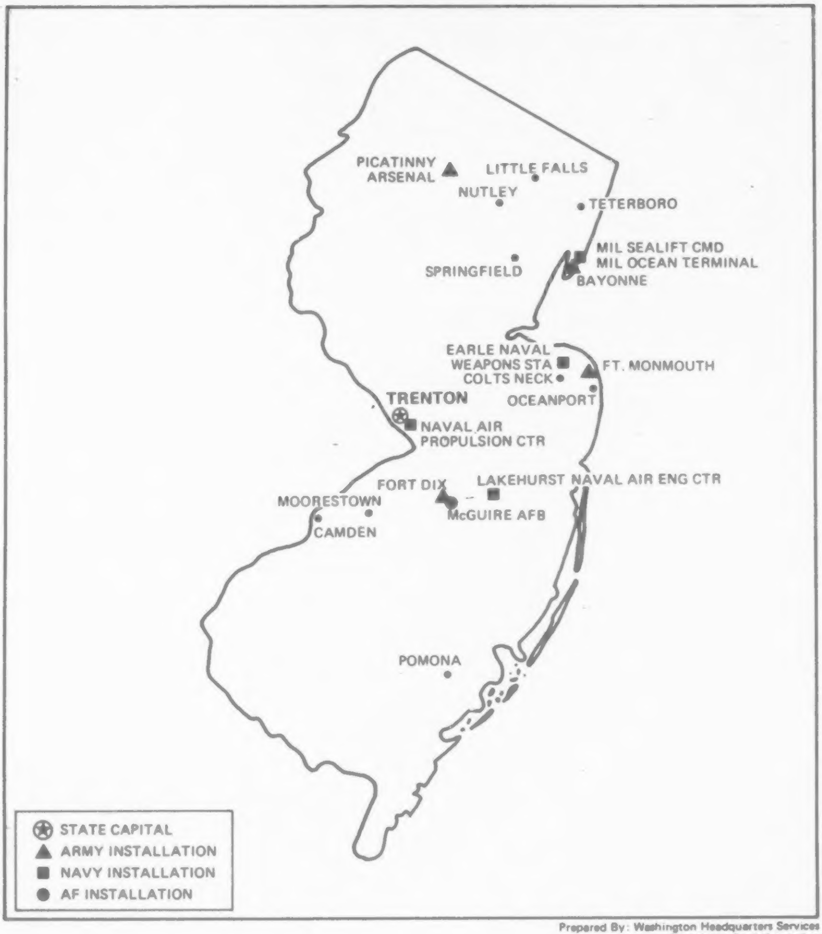
MAP NO. 35

NEW JERSEY


PICATINNY ARSENAL
LITTLE FALLS
NUTLEY
TETERBORO
MIL SEALIFT CMD
MIL OCEAN TERMINAL
SPRINGFIELD
BAYONNE
EARLE NAVAL WEAPONS STA
COLTS NECK
FT. MONMOUTH
TRENTON
OCEANPORT
NAVAL AIR PROPULSION CTR
FORT DIX
LAKEHURST NAVAL AIR ENG CTR
MOORESTOWN
McGUIRE AFB
CAMDEN
POMONA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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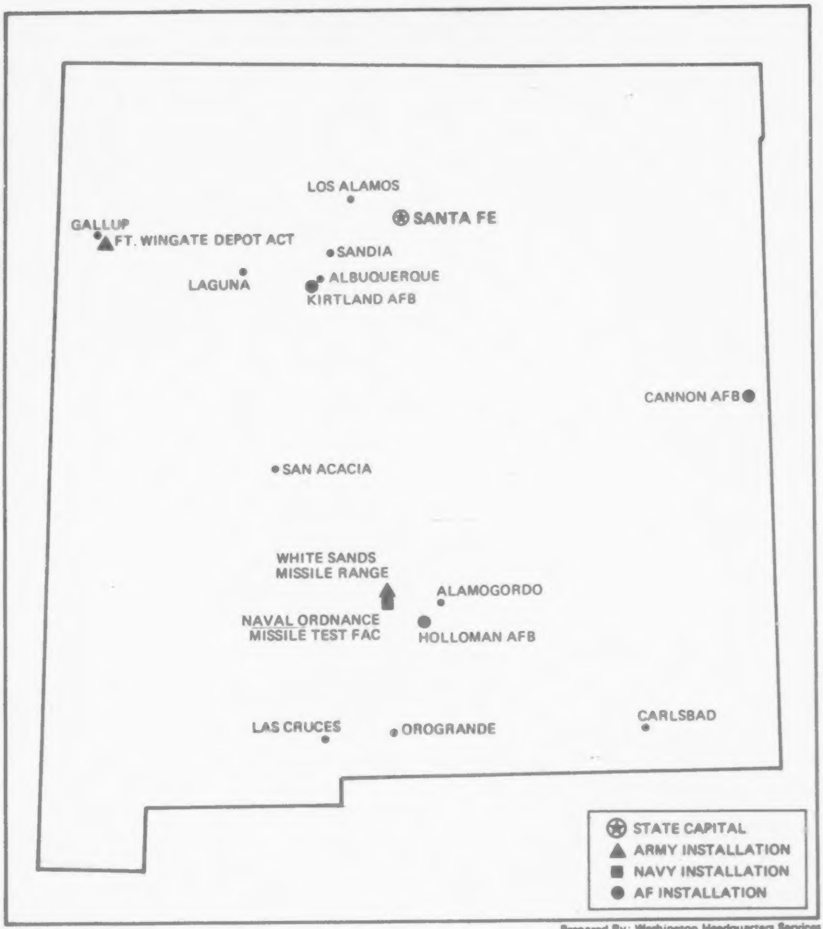
MAP. NO. 36

NEW MEXICO


LOS ALAMOS
SANTA FE
GALLUP
FT. WINGATE DEPOT ACT
SANDIA
ALBUQUERQUE
LAGUNA
KIRTLAND AFB
CANNON AFB
SAN ACACIA
WHITE SANDS MISSILE RANGE
ALAMOGORDO
NAVAL ORDNANCE MISSILE TEST FAC
HOLLOMAN AFB
LAS CRUCES
OROGRANDE
CARLSBAD
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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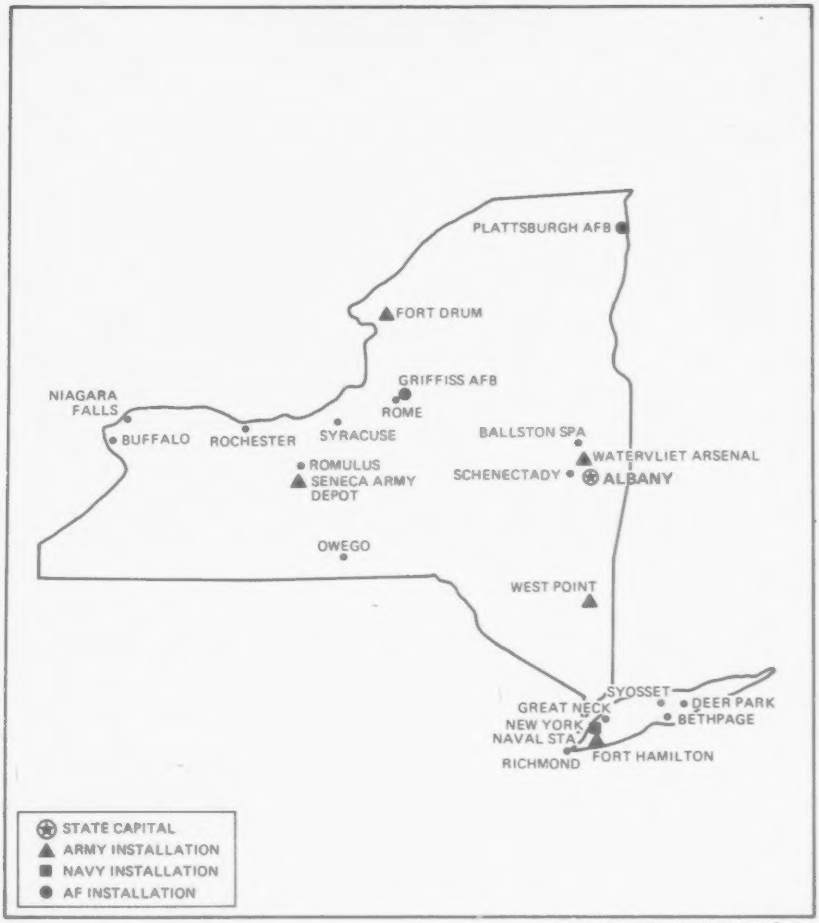
MAP NO. 37

NEW YORK


PLATTSBURGH AFB
FORT DRUM
GRIFFISS AFB
ROME
NIAGARA FALLS
BUFFALO
ROCHESTER
SYRACUSE
BALLSTON SPA
WATERVLIET ARSENAL
SCHENECTADY
ALBANY
ROMULUS
SENECA ARMY DEPOT
OWEGO
WEST POINT
SYOSSET
DEER PARK
BETHPAGE
GREAT NECK
NEW YORK NAVAL STA
FORT HAMILTON
RICHMOND
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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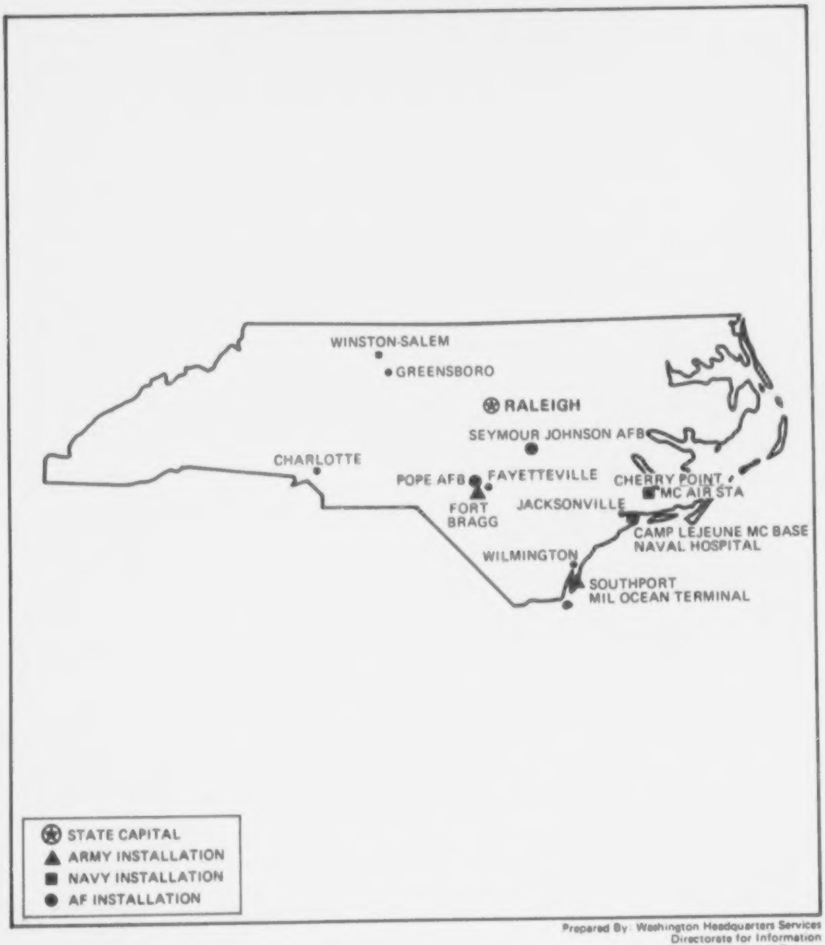
MAP NO. 38

NORTH CAROLINA


WINSTON-SALEM
GREENSBORO
RALEIGH
SEYMOUR JOHNSON AFB
CHARLOTTE
POPE AFB
FAYETTEVILLE
FORT BRAGG
CHERRY POINT
MC AIR STA
JACKSONVILLE
CAMP LEJEUNE MC BASE
NAVAL HOSPITAL
WILMINGTON
SOUTHPORT
MIL OCEAN TERMINAL
⊛ STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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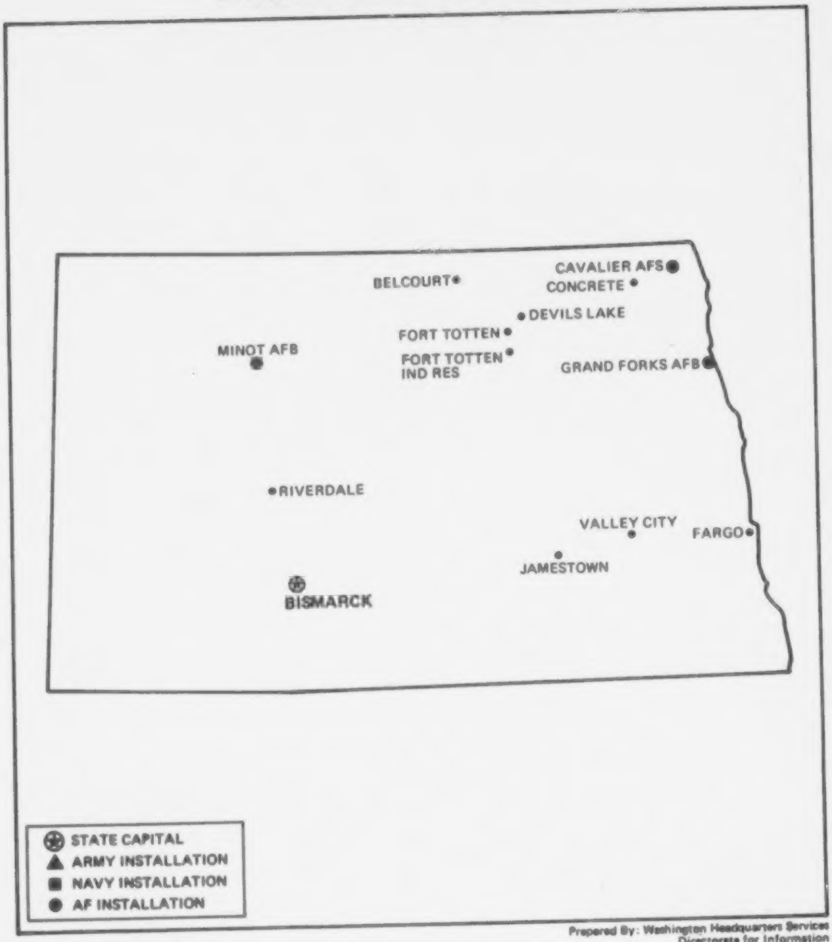
MAP NO. 39

NORTH DAKOTA


CAVALIER AFS
BELCOURT
CONCRETE
DEVILS LAKE
FORT TOTTEN
MINOT AFB
FORT TOTTEN IND RES
GRAND FORKS AFB
RIVERDALE
VALLEY CITY
FARGO
JAMESTOWN
BISMARCK
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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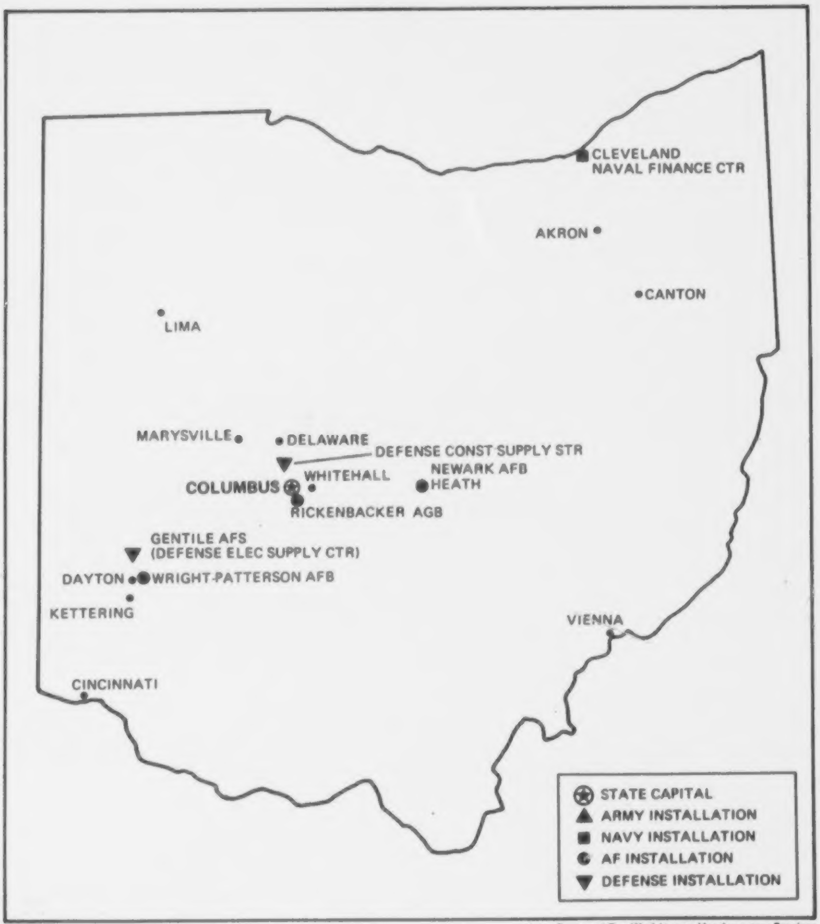
MAP NO. 40

OHIO


CLEVELAND
NAVAL FINANCE CTR
AKRON
CANTON
LIMA
MARYSVILLE
DELAWARE
DEFENSE CONST SUPPLY STR
WHITEHALL
NEWARK AFB
HEATH
COLUMBUS
RICKENBACKER AGB
GENTILE AFS
(DEFENSE ELEC SUPPLY CTR)
DAYTON
WRIGHT-PATTERSON AFB
KETTERING
VIENNA
CINCINNATI
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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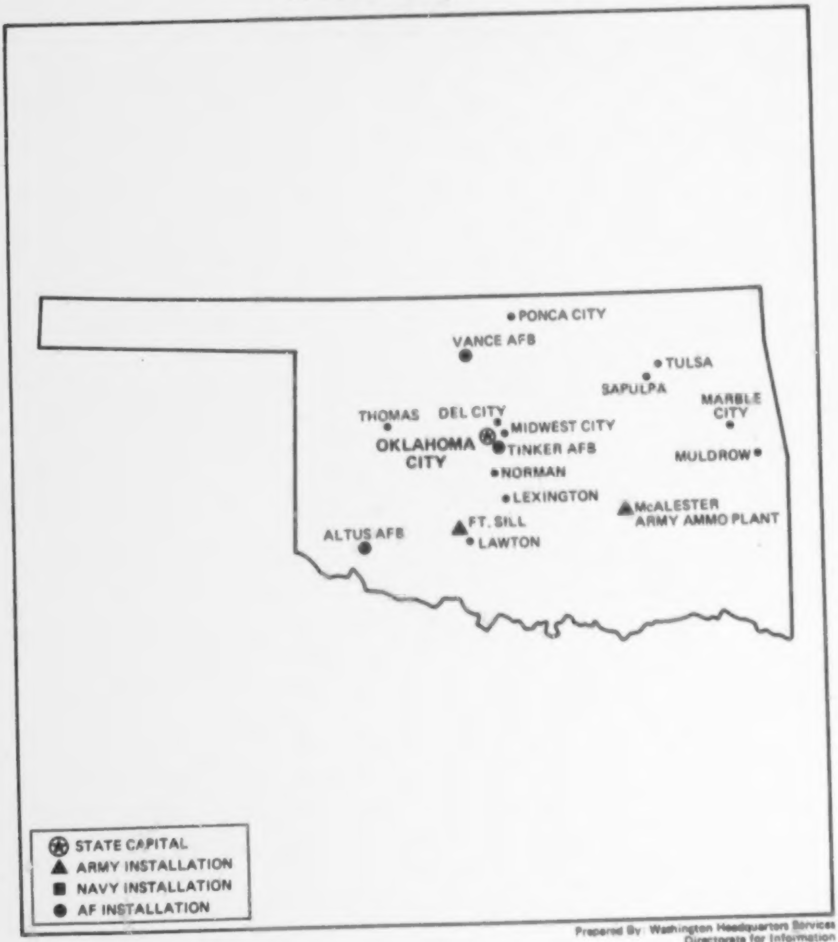
MAP NO. 41

OKLAHOMA


PONCA CITY
VANCE AFB
TULSA
SAPULPA
MARBLE CITY
THOMAS
DEL CITY
MIDWEST CITY
OKLAHOMA CITY
TINKER AFB
MULDROW
NORMAN
LEXINGTON
McALESTER ARMY AMMO PLANT
FT. SILL
ALTUS AFB
LAWTON
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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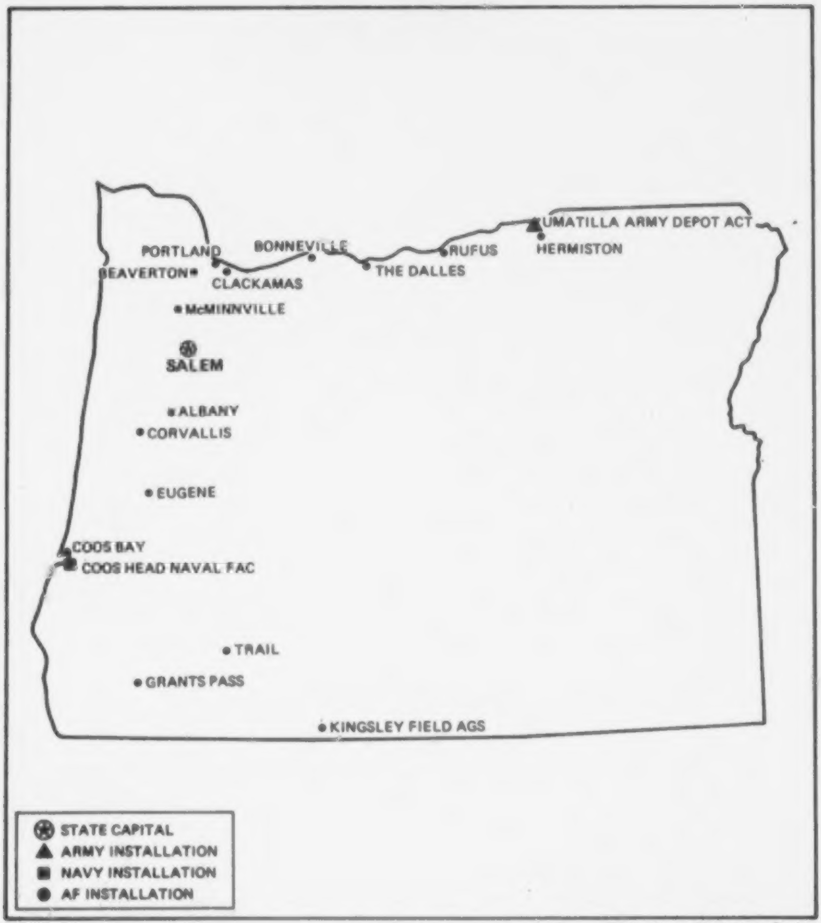
MAP NO. 42

OREGON


UMATILLA ARMY DEPOT ACT
HERMISTON
PORTLAND
BONNEVILLE
RUFUS
BEAVERTON
CLACKAMAS
THE DALLES
McMINNVILLE
SALEM
ALBANY
CORVALLIS
EUGENE
COOS BAY
COOS HEAD NAVAL FAC
TRAIL
GRANTS PASS
KINGSLEY FIELD AGS
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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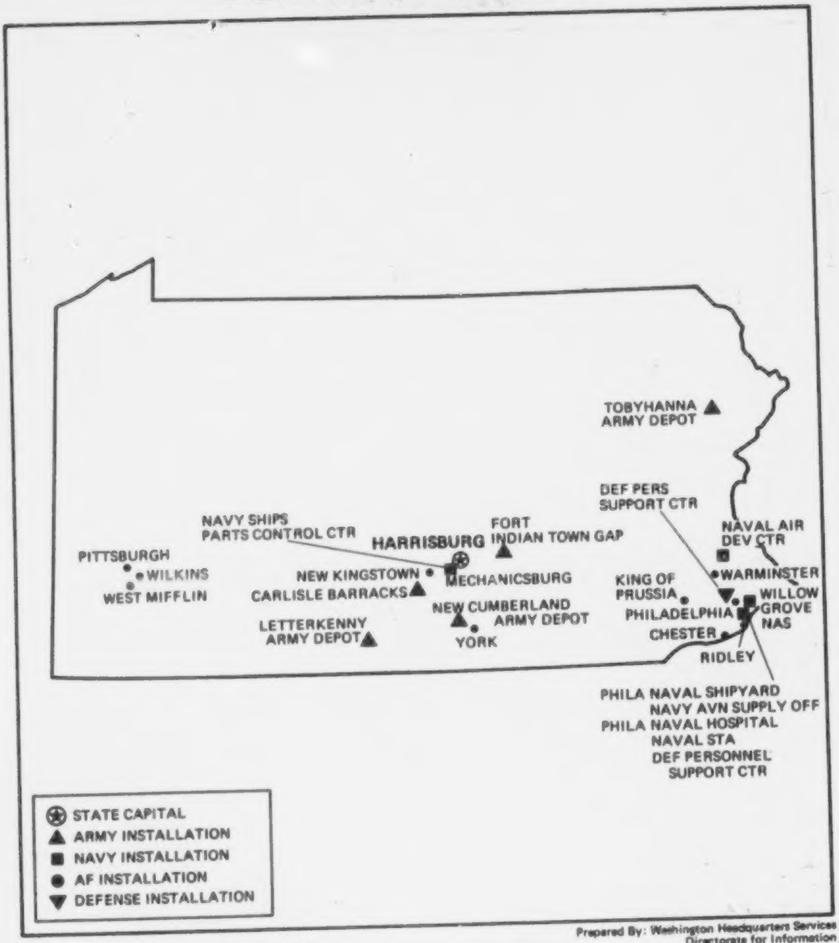
MAP NO. 43

PENNSYLVANIA


TOBYHANNA
ARMY DEPOT
DEF PERS
SUPPORT CTR
NAVY SHIPS
PARTS CONTROL CTR
FORT
INDIAN TOWN GAP
HARRISBURG
NAVAL AIR
DEV CTR
PITTSBURGH
WILKINS
WEST MIFFLIN
NEW KINGSTOWN
MECHANICSBURG
CARLISLE BARRACKS
KING OF
PRUSSIA
WARMINSTER
WILLOW
GROVE
NAS
NEW CUMBERLAND
ARMY DEPOT
PHILADELPHIA
LETTERKENNY
ARMY DEPOT
YORK
CHESTER
RIDLEY
PHILA NAVAL SHIPYARD
NAVY AVN SUPPLY OFF
PHILA NAVAL HOSPITAL
NAVAL STA
DEF PERSONNEL
SUPPORT CTR
⊛ STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION
▼ DEFENSE INSTALLATION

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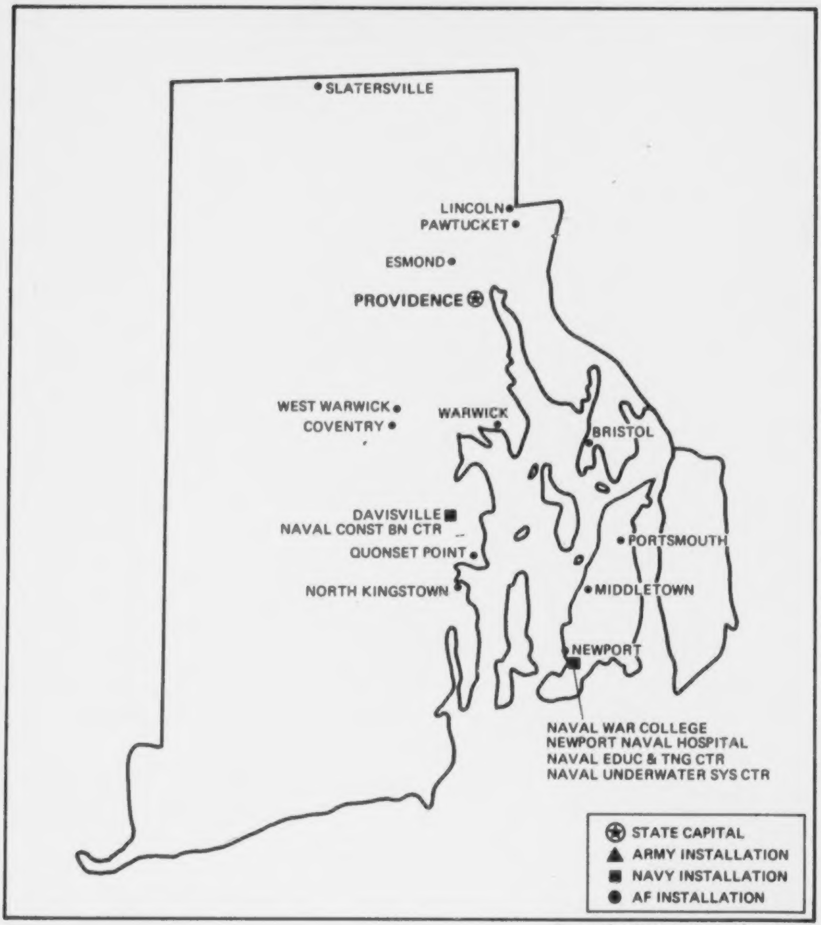
MAP NO. 44

RHODE ISLAND


SLATERSVILLE
LINCOLN
PAWTUCKET
ESMOND
PROVIDENCE
WEST WARWICK
COVENTRY
WARWICK
BRISTOL
DAVISVILLE
NAVAL CONST BN CTR
QUONSET POINT
NORTH KINGSTOWN
PORTSMOUTH
MIDDLETOWN
NEWPORT
NAVAL WAR COLLEGE
NEWPORT NAVAL HOSPITAL
NAVAL EDUC & TNG CTR
NAVAL UNDERWATER SYS CTR
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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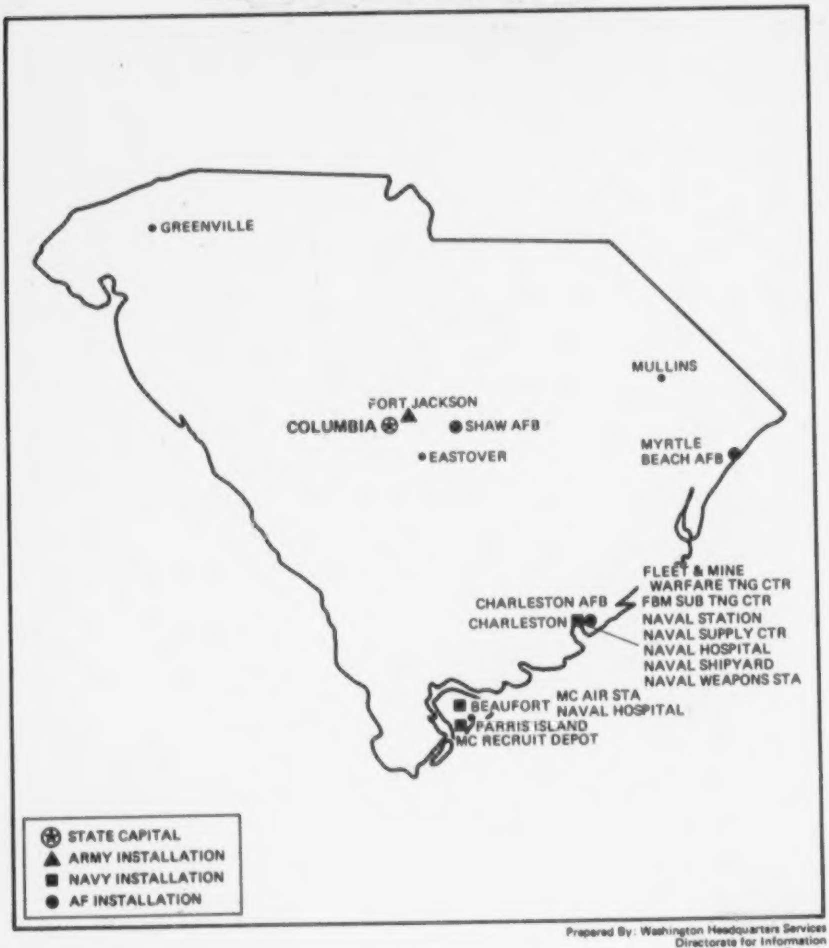
MAP NO. 45

SOUTH CAROLINA


GREENVILLE
MULLINS
FORT JACKSON
COLUMBIA
SHAW AFB
EASTOVER
MYRTLE BEACH AFB
FLEET & MINE WARFARE TNG CTR
FBM SUB TNG CTR
NAVAL STATION
NAVAL SUPPLY CTR
NAVAL HOSPITAL
NAVAL SHIPYARD
NAVAL WEAPONS STA
CHARLESTON AFB
CHARLESTON
MC AIR STA
NAVAL HOSPITAL
BEAUFORT
PARRIS ISLAND
MC RECRUIT DEPOT
⊛ STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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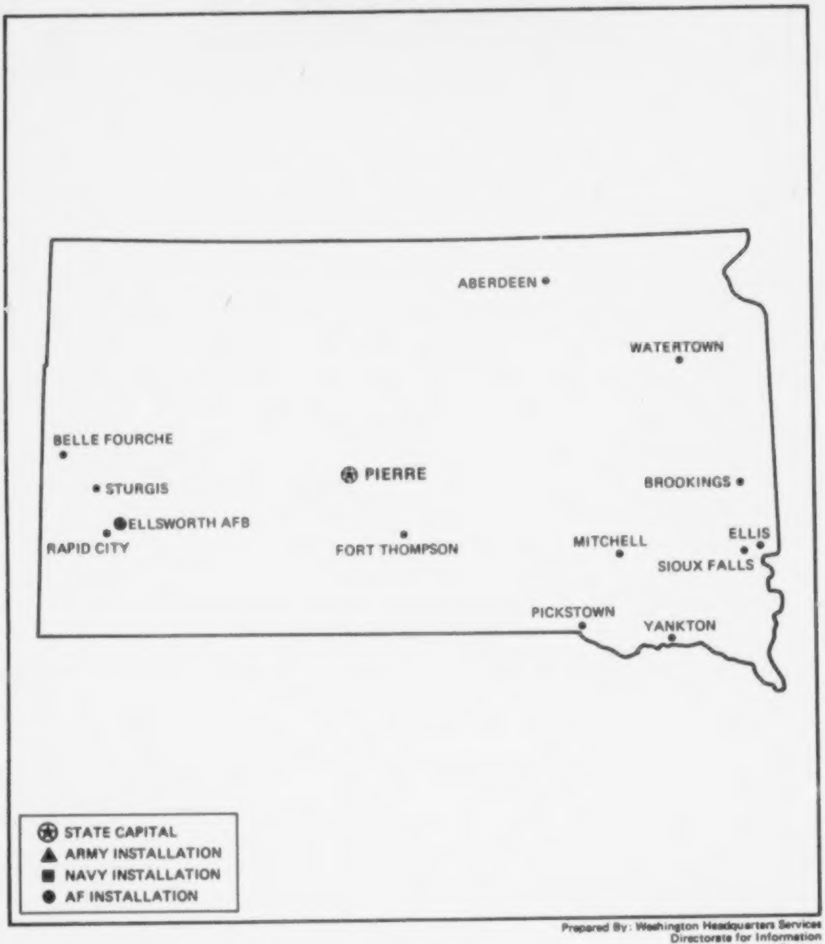
MAP NO. 46

SOUTH DAKOTA


ABERDEEN
WATERTOWN
BELLE FOURCHE
STURGIS
PIERRE
BROOKINGS
ELLSWORTH AFB
RAPID CITY
FORT THOMPSON
MITCHELL
ELLIS
SIOUX FALLS
PICKSTOWN
YANKTON
⊛ STATE CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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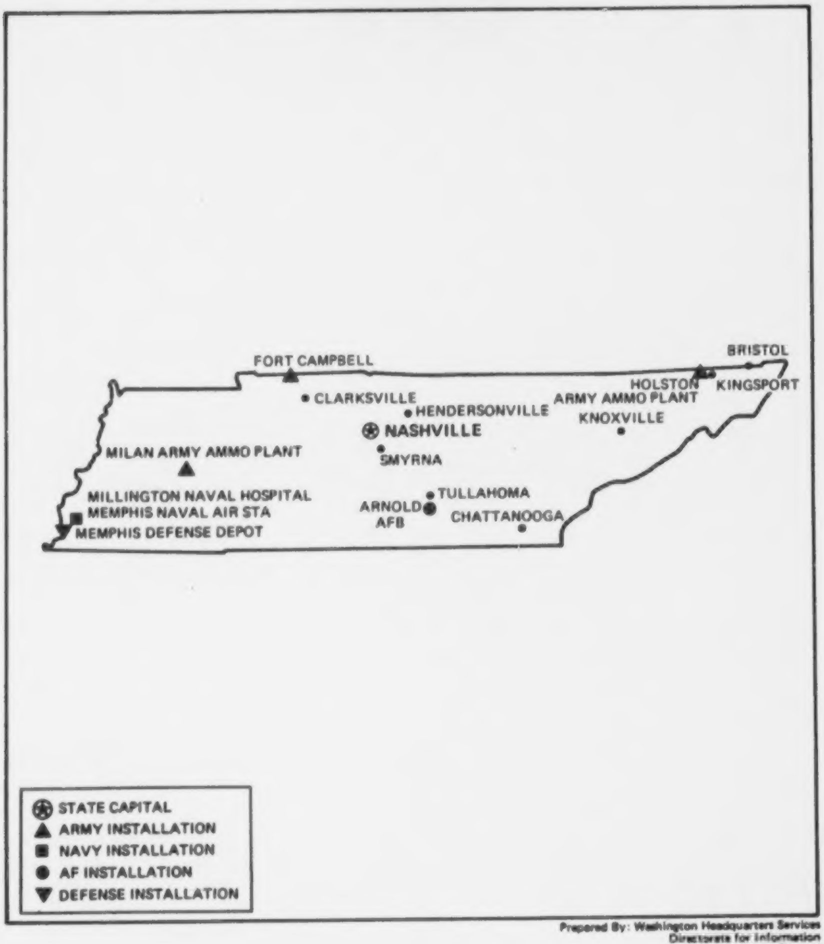
MAP NO. 47

TENNESSEE


FORT CAMPBELL
BRISTOL
HOLSTON ARMY AMMO PLANT
KINGSPORT
CLARKSVILLE
HENDERSONVILLE
NASHVILLE
KNOXVILLE
MILAN ARMY AMMO PLANT
SMYRNA
MILLINGTON NAVAL HOSPITAL
MEMPHIS NAVAL AIR STA
MEMPHIS DEFENSE DEPOT
TULLAHOMA
ARNOLD AFB
CHATTANOOGA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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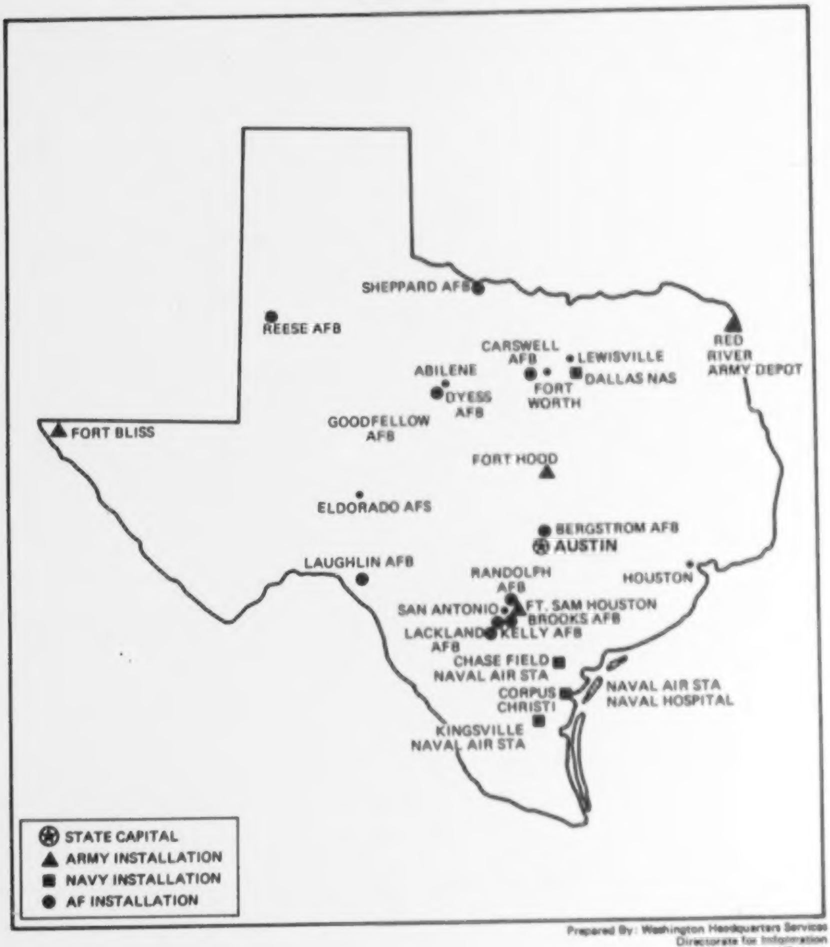
MAP NO. 48

TEXAS


SHEPPARD AFB
REESE AFB
CARSWELL AFB
LEWISVILLE
DALLAS NAS
FORT WORTH
RED RIVER ARMY DEPOT
ABILENE
DYESS AFB
GOODFELLOW AFB
FORT BLISS
FORT HOOD
ELDORADO AFS
BERGSTROM AFB
AUSTIN
LAUGHLIN AFB
RANDOLPH AFB
HOUSTON
SAN ANTONIO
FT. SAM HOUSTON
BROOKS AFB
LACKLAND AFB
KELLY AFB
CHASE FIELD NAVAL AIR STA
CORPUS CHRISTI
NAVAL AIR STA
NAVAL HOSPITAL
KINGSVILLE NAVAL AIR STA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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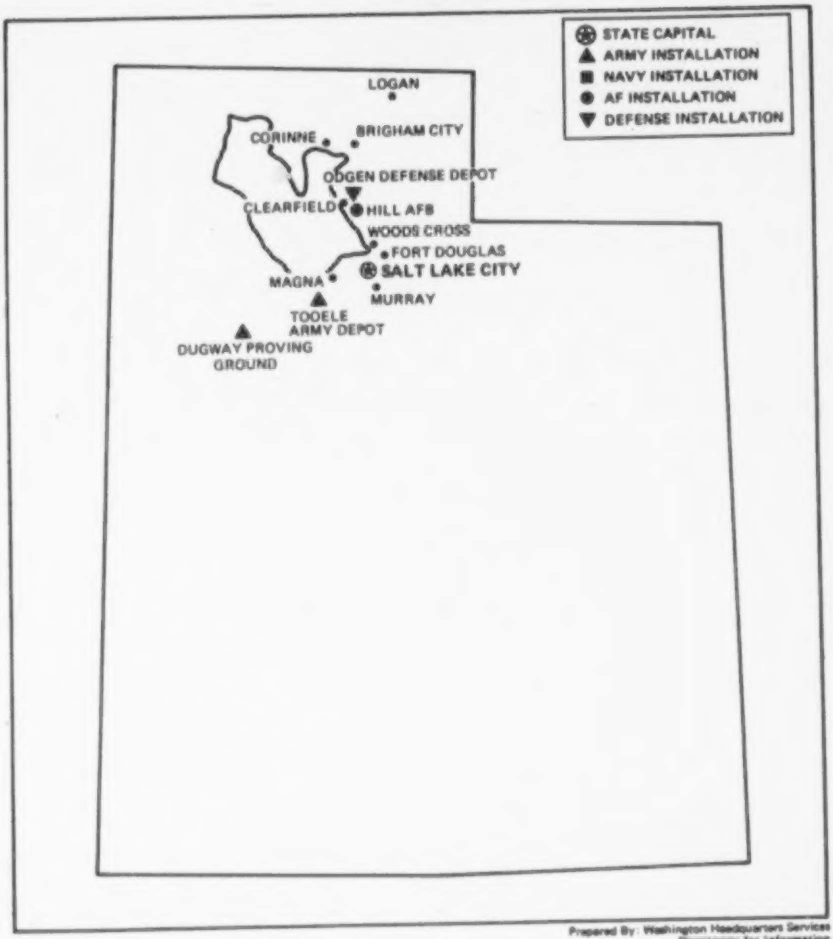
MAP NO. 49

UTAH


STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION
LOGAN
CORINNE
BRIGHAM CITY
OGDEN DEFENSE DEPOT
CLEARFIELD
HILL AFB
WOODS CROSS
FORT DOUGLAS
SALT LAKE CITY
MAGNA
MURRAY
TOOELE ARMY DEPOT
DUGWAY PROVING GROUND

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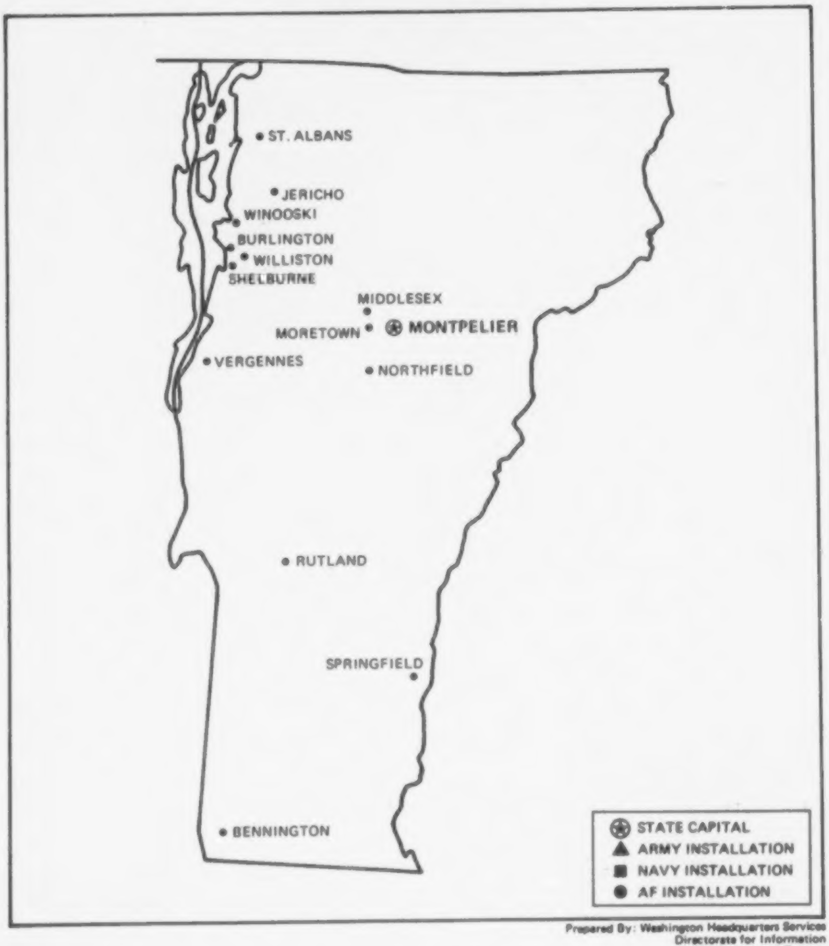
MAP NO. 50

VERMONT


ST. ALBANS
JERICHO
WINOOSKI
BURLINGTON
WILLISTON
SHELBURNE
MIDDLESEX
MORETOWN
MONTPELIER
VERGENNES
NORTHFIELD
RUTLAND
SPRINGFIELD
BENNINGTON
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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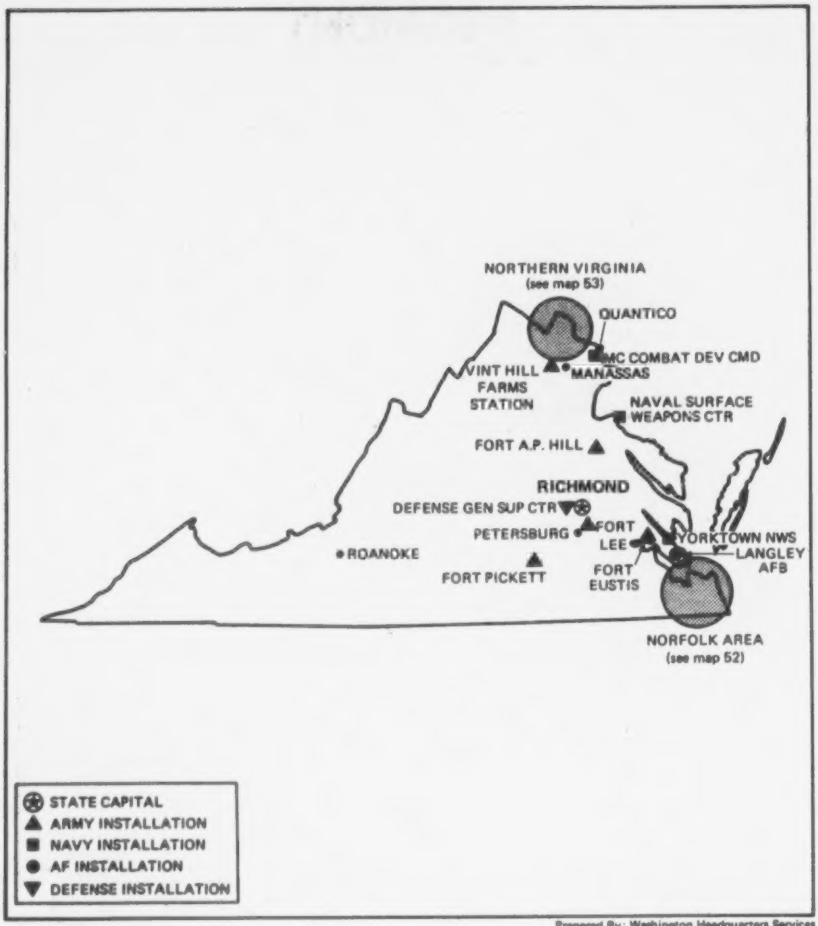
MAP NO. 51

VIRGINIA


NORTHERN VIRGINIA
(see map 53)
QUANTICO
MC COMBAT DEV CMD
VINT HILL FARMS STATION
MANASSAS
NAVAL SURFACE WEAPONS CTR
FORT A.P. HILL
RICHMOND
DEFENSE GEN SUP CTR
PETERSBURG
FORT LEE
ROANOKE
FORT PICKETT
FORT EUSTIS
YORKTOWN NWS
LANGLEY AFB
NORFOLK AREA
(see map 52)
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
DEFENSE INSTALLATION

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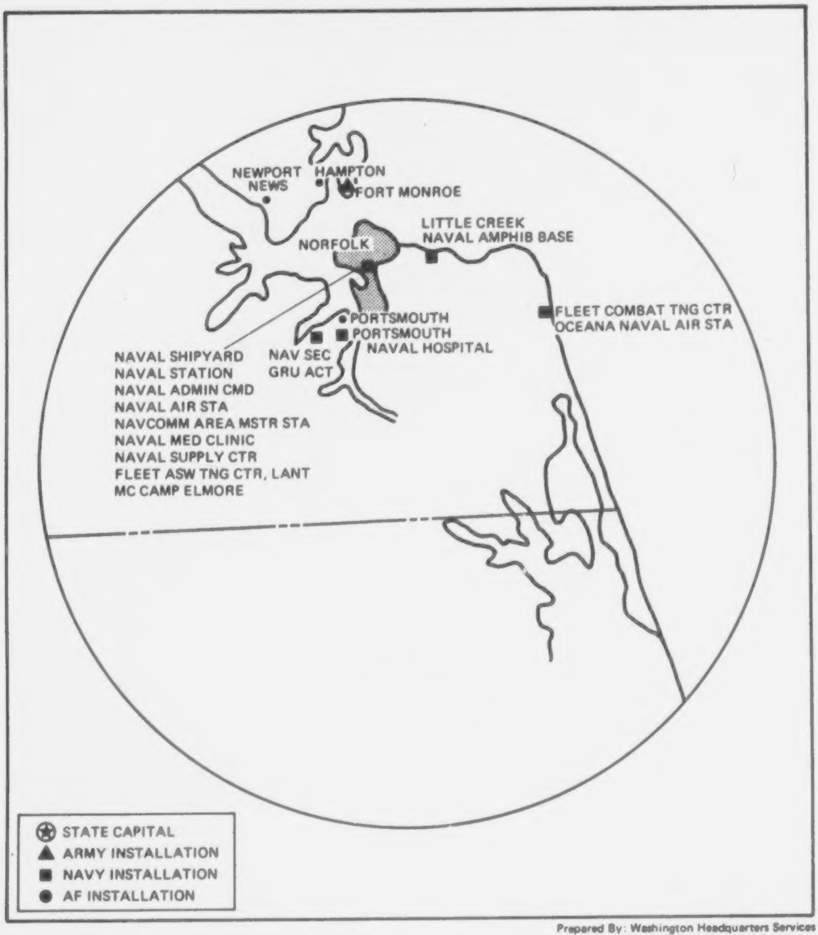
MAP NO. 52

NORFOLK AREA


NEWPORT NEWS
HAMPTON
FORT MONROE
NORFOLK
LITTLE CREEK NAVAL AMPHIB BASE
FLEET COMBAT TNG CTR
OCEANA NAVAL AIR STA
PORTSMOUTH
PORTSMOUTH NAVAL HOSPITAL
NAV SEC GRU ACT
NAVAL SHIPYARD
NAVAL STATION
NAVAL ADMIN CMD
NAVAL AIR STA
NAVCOMM AREA MSTR STA
NAVAL MED CLINIC
NAVAL SUPPLY CTR
FLEET ASW TNG CTR, LANT
MC CAMP ELMORE
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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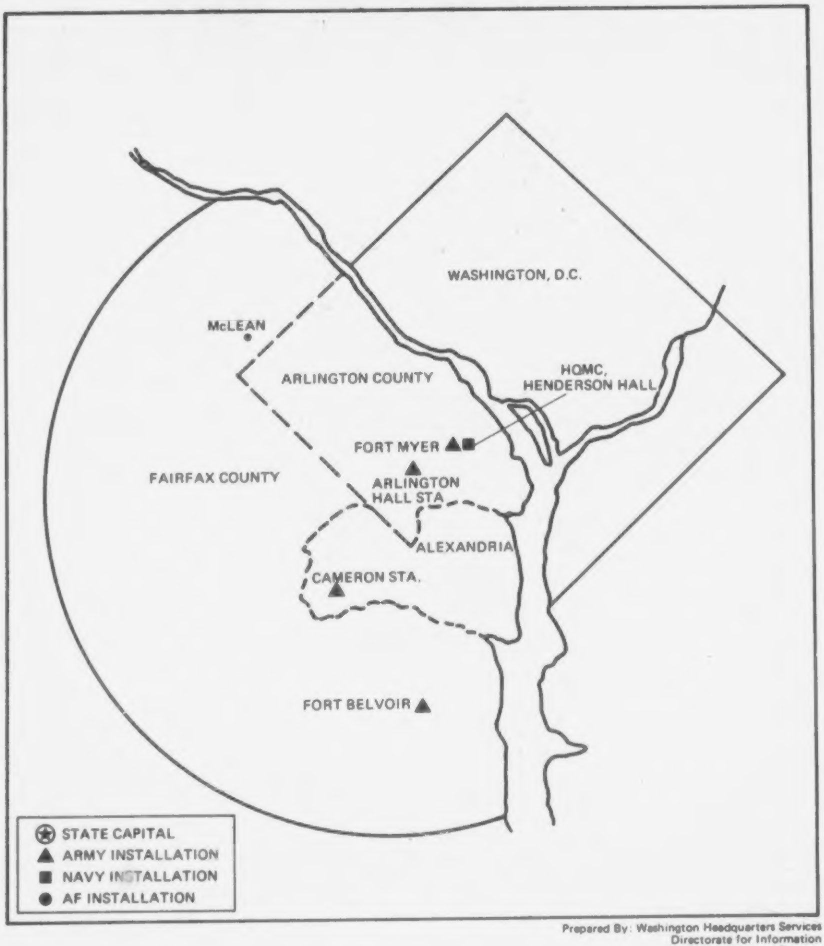
MAP NO. 53

NORTHERN VIRGINIA


WASHINGTON, D.C.
McLEAN
ARLINGTON COUNTY
HQMC, HENDERSON HALL
FORT MYER
ARLINGTON HALL STA.
FAIRFAX COUNTY
ALEXANDRIA
CAMERON STA.
FORT BELVOIR
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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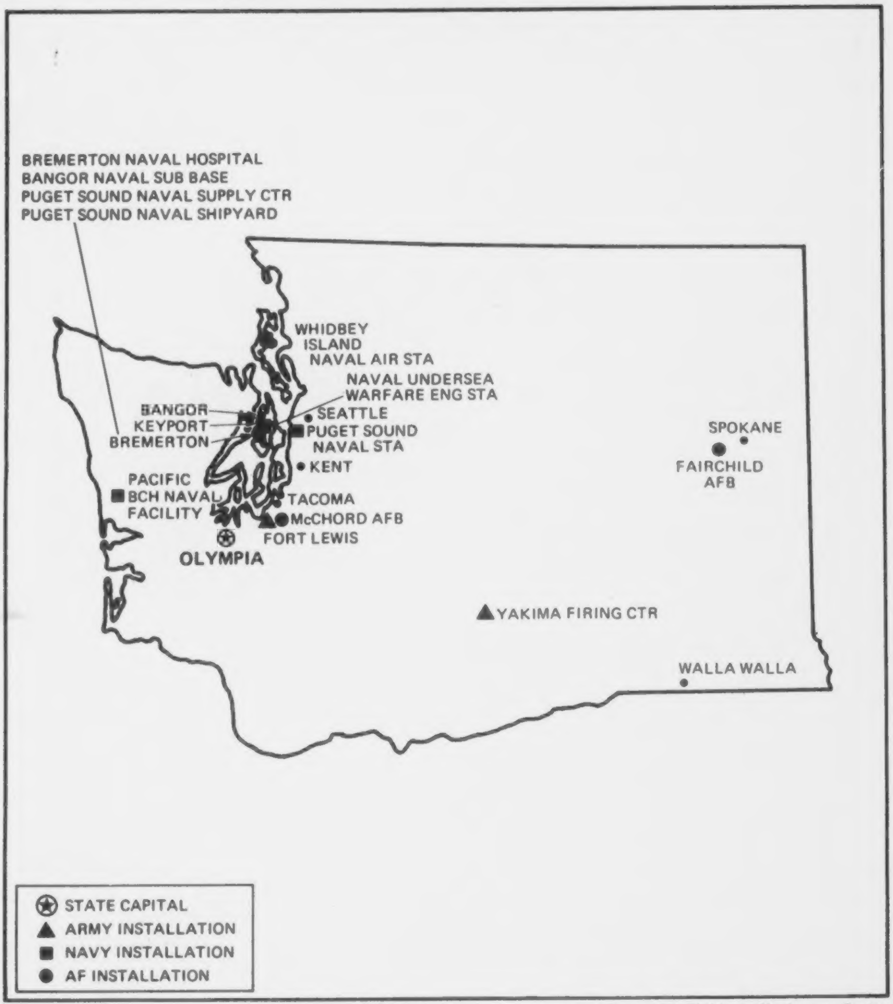
MAP NO. 54

WASHINGTON


BREMERTON NAVAL HOSPITAL
BANGOR NAVAL SUB BASE
PUGET SOUND NAVAL SUPPLY CTR
PUGET SOUND NAVAL SHIPYARD
WHIDBEY ISLAND NAVAL AIR STA
NAVAL UNDERSEA WARFARE ENG STA
BANGOR
KEYPORT
BREMERTON
SEATTLE
PUGET SOUND NAVAL STA
KENT
PACIFIC BCH NAVAL FACILITY
TACOMA
McCHORD AFB
FORT LEWIS
OLYMPIA
SPOKANE
FAIRCHILD AFB
YAKIMA FIRING CTR
WALLA WALLA
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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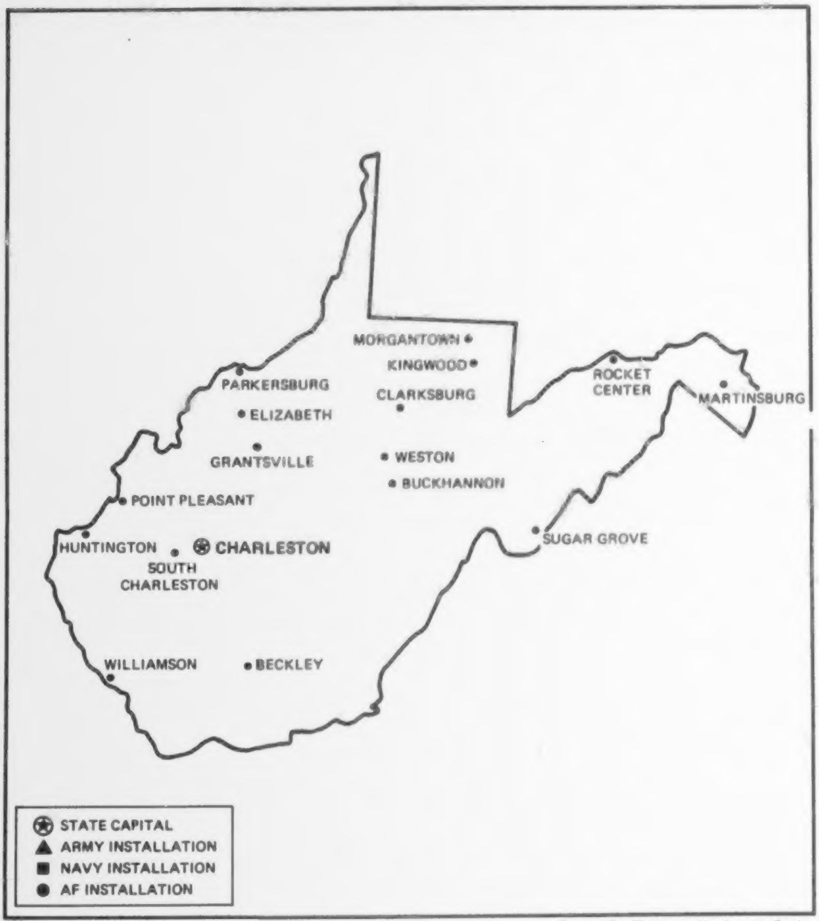
MAP NO. 55

WEST VIRGINIA


MORGANTOWN
KINGWOOD
PARKERSBURG
CLARKSBURG
ROCKET CENTER
MARTINSBURG
ELIZABETH
GRANTSVILLE
WESTON
BUCKHANNON
POINT PLEASANT
HUNTINGTON
CHARLESTON
SOUTH CHARLESTON
SUGAR GROVE
WILLIAMSON
BECKLEY
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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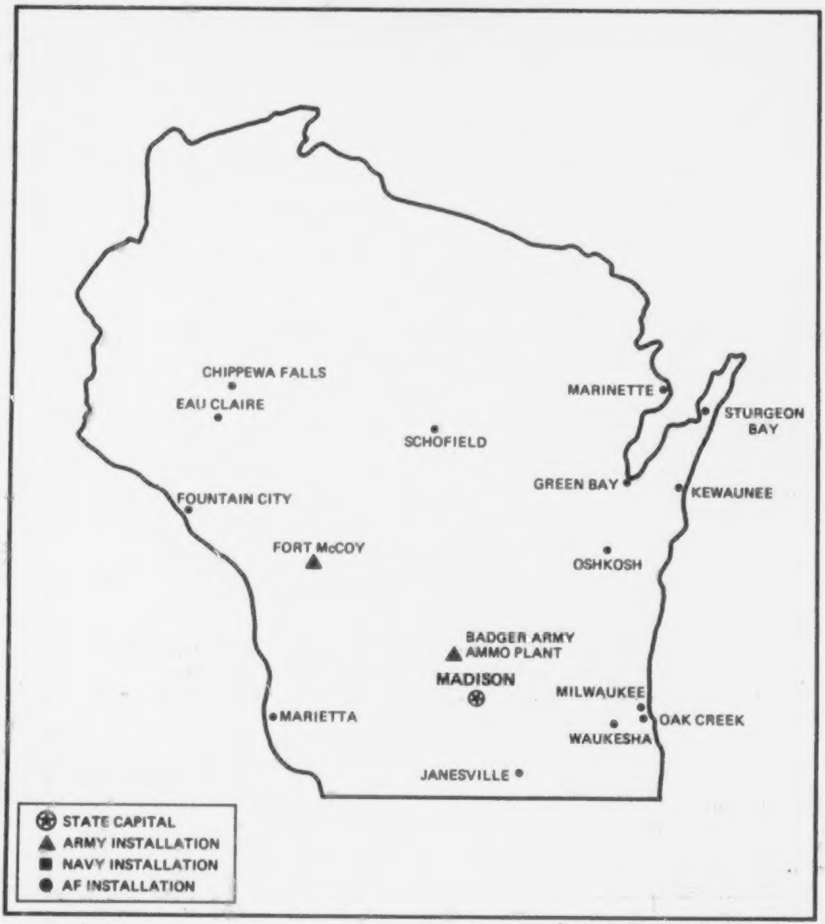
MAP NO. 56

WISCONSIN


CHIPPEWA FALLS
EAU CLAIRE
SCHOFIELD
MARINETTE
STURGEON BAY
GREEN BAY
KEWAUNEE
FOUNTAIN CITY
FORT McCOY
OSHKOSH
BADGER ARMY AMMO PLANT
MADISON
MILWAUKEE
OAK CREEK
WAUKESHA
MARIETTA
JANESVILLE
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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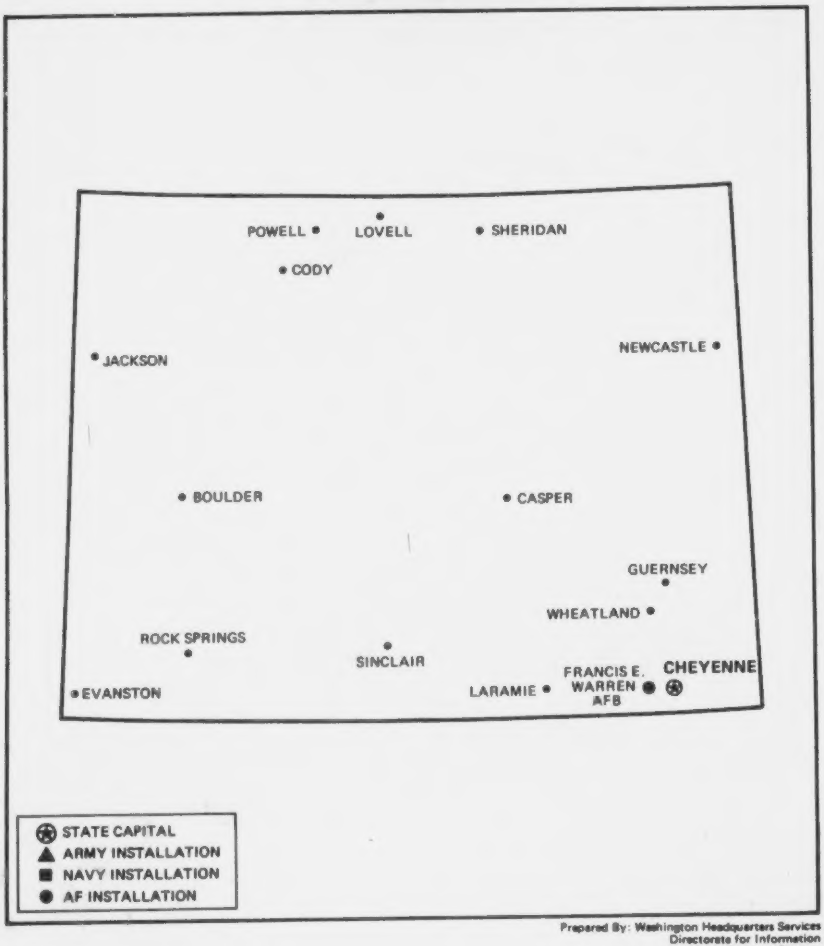
MAP NO. 57

WYOMING


POWELL
LOVELL
SHERIDAN
CODY
JACKSON
NEWCASTLE
BOULDER
CASPER
GUERNSEY
WHEATLAND
ROCK SPRINGS
SINCLAIR
FRANCIS E. WARREN AFB
CHEYENNE
EVANSTON
LARAMIE
STATE CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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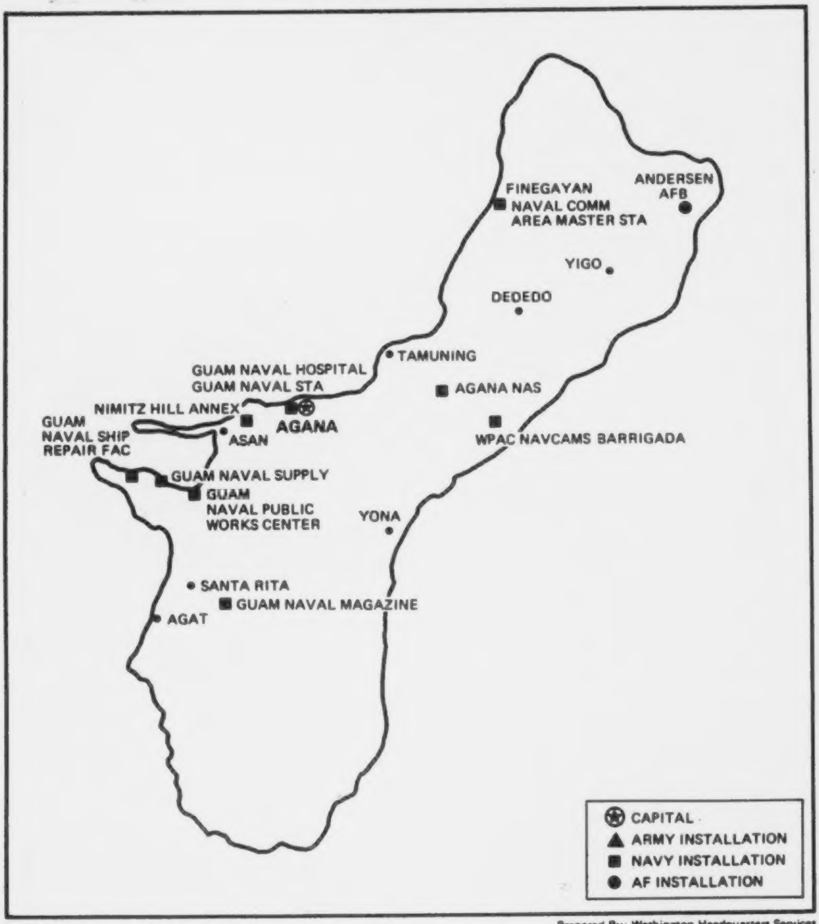
MAP NO. 58

GUAM


FINEGAYAN
NAVAL COMM
AREA MASTER STA
ANDERSEN
AFB
YIGO
DEDEDO
TAMUNING
GUAM NAVAL HOSPITAL
GUAM NAVAL STA
AGANA NAS
NIMITZ HILL ANNEX
AGANA
GUAM
NAVAL SHIP
REPAIR FAC
ASAN
WPAC NAVCAMS BARRIGADA
GUAM NAVAL SUPPLY
GUAM
NAVAL PUBLIC
WORKS CENTER
YONA
SANTA RITA
GUAM NAVAL MAGAZINE
AGAT
⊛ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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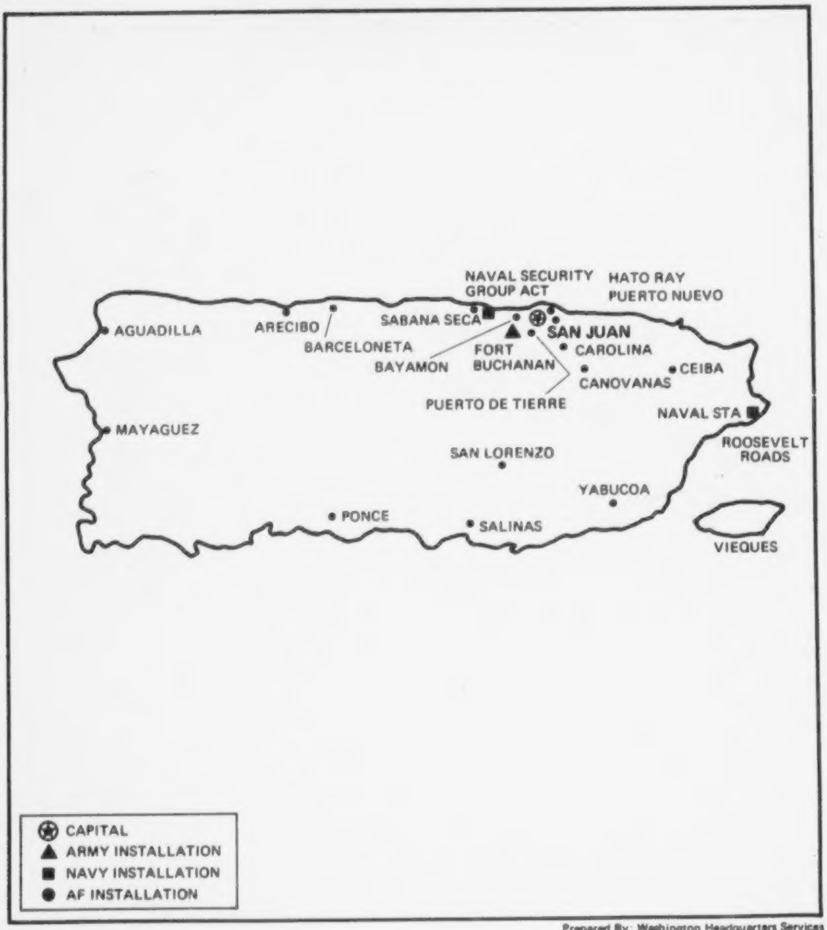
MAP NO. 59

PUERTO RICO


NAVAL SECURITY
GROUP ACT
HATO RAY
PUERTO NUEVO
AGUADILLA
ARECIBO
BARCELONETA
SABANA SECA
SAN JUAN
FORT
BUCHANAN
BAYAMON
CAROLINA
CEIBA
CANOVANAS
PUERTO DE TIERRE
NAVAL STA
ROOSEVELT
ROADS
MAYAGUEZ
SAN LORENZO
YABUCOA
PONCE
SALINAS
VIEQUES
CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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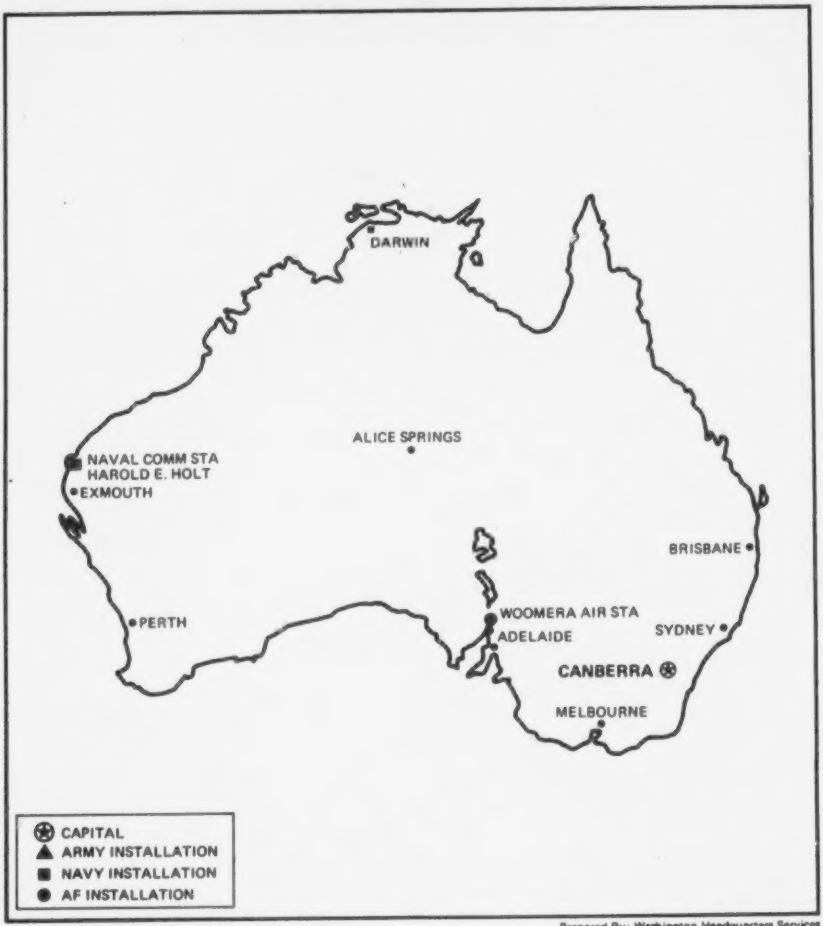
MAP NO. 60

AUSTRALIA


DARWIN
ALICE SPRINGS
NAVAL COMM STA
HAROLD E. HOLT
EXMOUTH
PERTH
WOOMERA AIR STA
ADELAIDE
BRISBANE
SYDNEY
CANBERRA
MELBOURNE
⊛ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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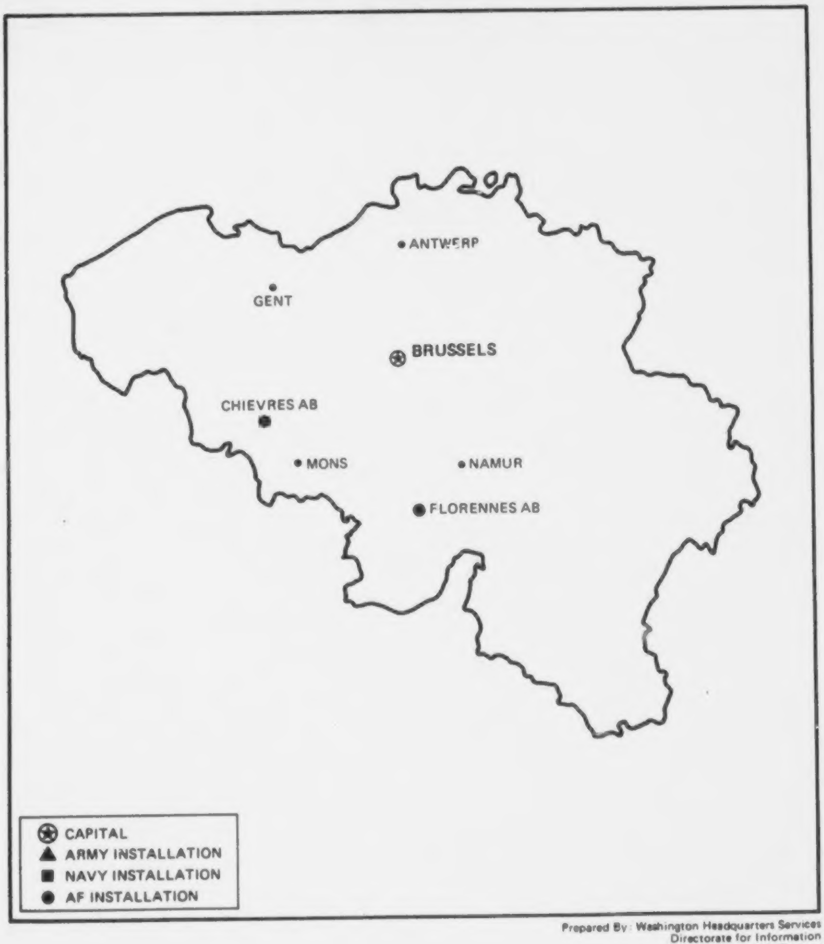
MAP NO. 61

BELGIUM


ANTWERP
GENT
BRUSSELS
CHIEVRES AB
MONS
NAMUR
FLORENNES AB
⊛ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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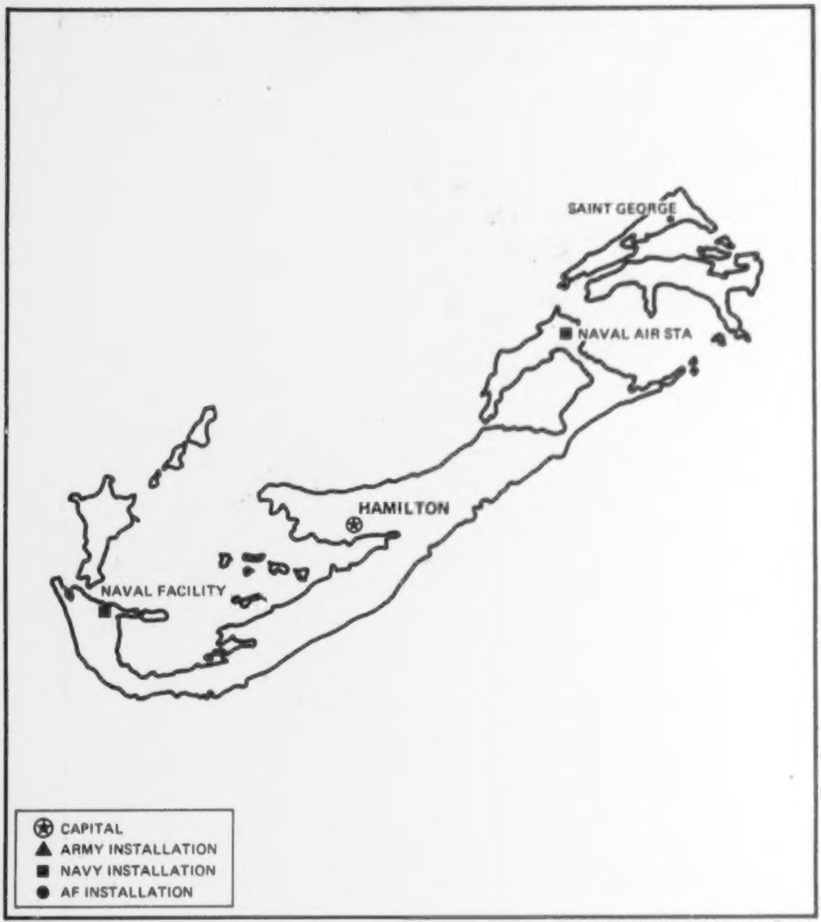
MAP NO. 62

BERMUDA


SAINT GEORGE
NAVAL AIR STA
HAMILTON
NAVAL FACILITY
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NAVY INSTALLATION
AF INSTALLATION

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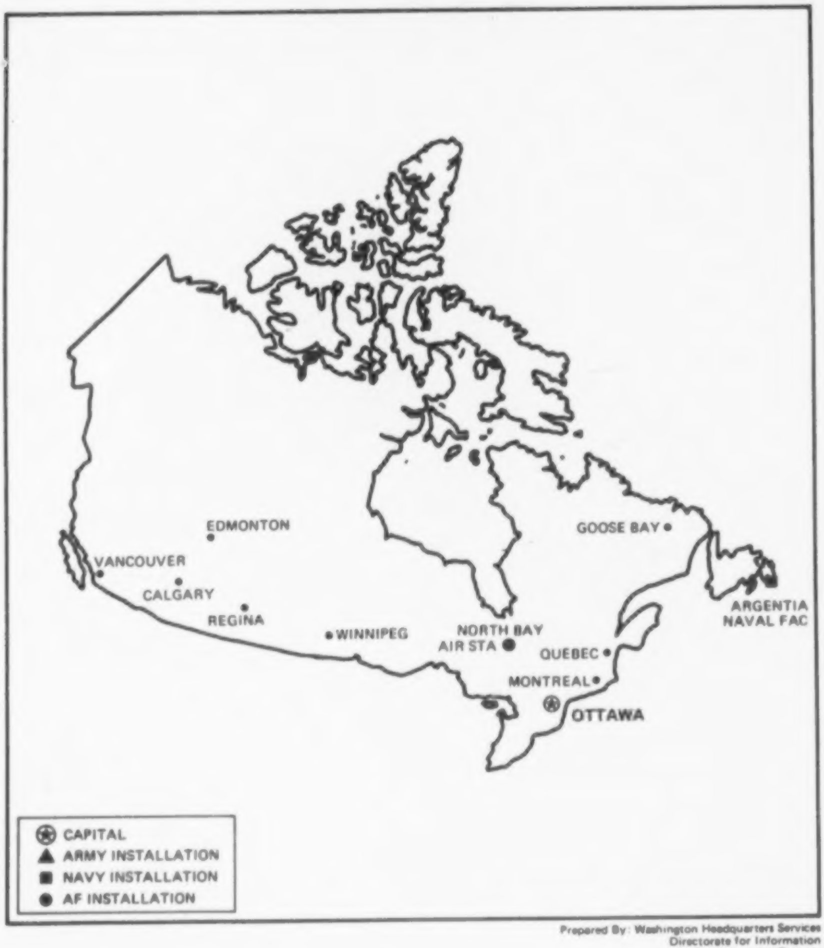
MAP NO. 63

CANADA


EDMONTON
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VANCOUVER
CALGARY
REGINA
WINNIPEG
NORTH BAY AIR STA
QUEBEC
ARGENTIA NAVAL FAC
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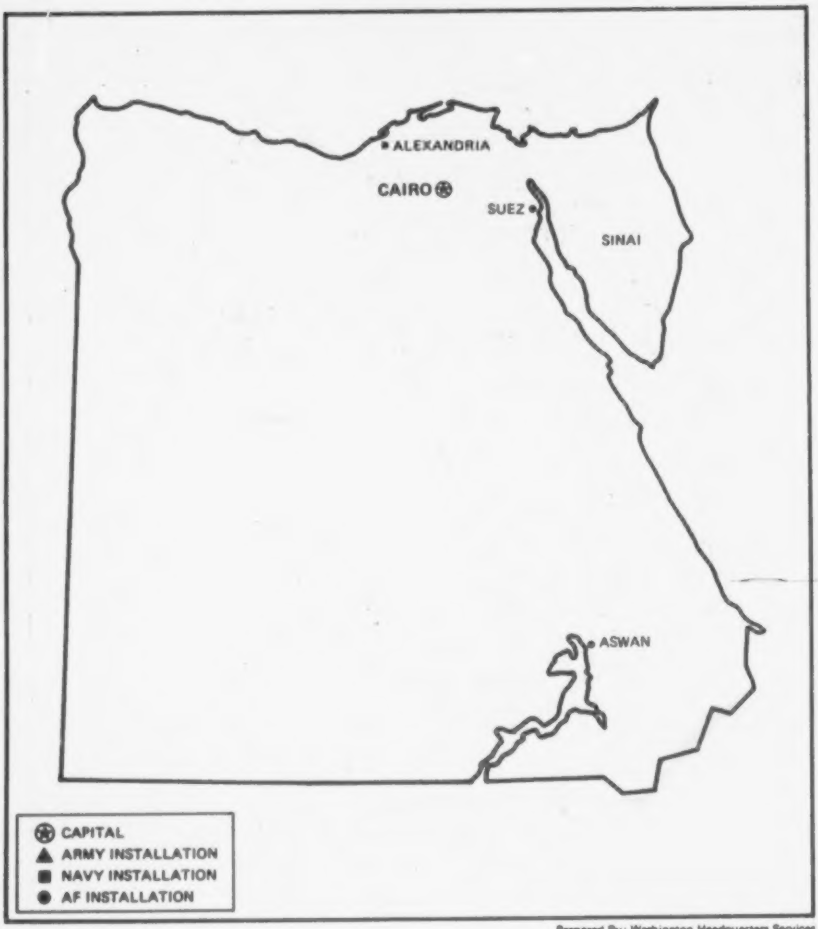
MAP NO. 64

EGYPT


ALEXANDRIA
CAIRO
SUEZ
SINAI
ASWAN
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NAVY INSTALLATION
AF INSTALLATION

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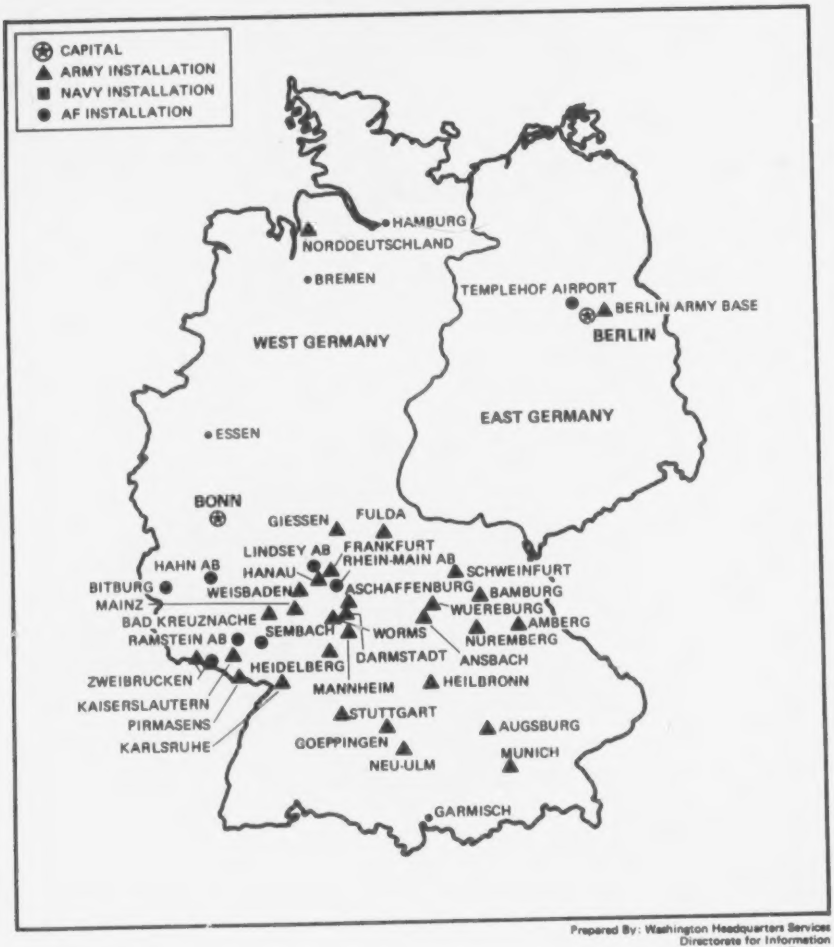
MAP NO. 65

GERMANY


CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION
HAMBURG
NORDDEUTSCHLAND
BREMEN
TEMPLEHOF AIRPORT
BERLIN ARMY BASE
BERLIN
WEST GERMANY
EAST GERMANY
ESSEN
BONN
GIESSEN
FULDA
LINDSEY AB
FRANKFURT
RHEIN-MAIN AB
HAHN AB
HANAU
SCHWEINFURT
BITBURG
WEISBADEN
ASCHAFFENBURG
BAMBURG
MAINZ
BAD KREUZNACHE
WUEREBURG
AMBERG
SEMBACH
WORMS
NUREMBERG
RAMSTEIN AB
DARMSTADT
ANSBACH
HEIDELBERG
ZWEIBRUCKEN
HEILBRONN
MANNHEIM
KAISERSLAUTERN
STUTTGART
AUGSBURG
PIRMASENS
GOEPPINGEN
KARLSRUHE
MUNICH
NEU-ULM
GARMISCH

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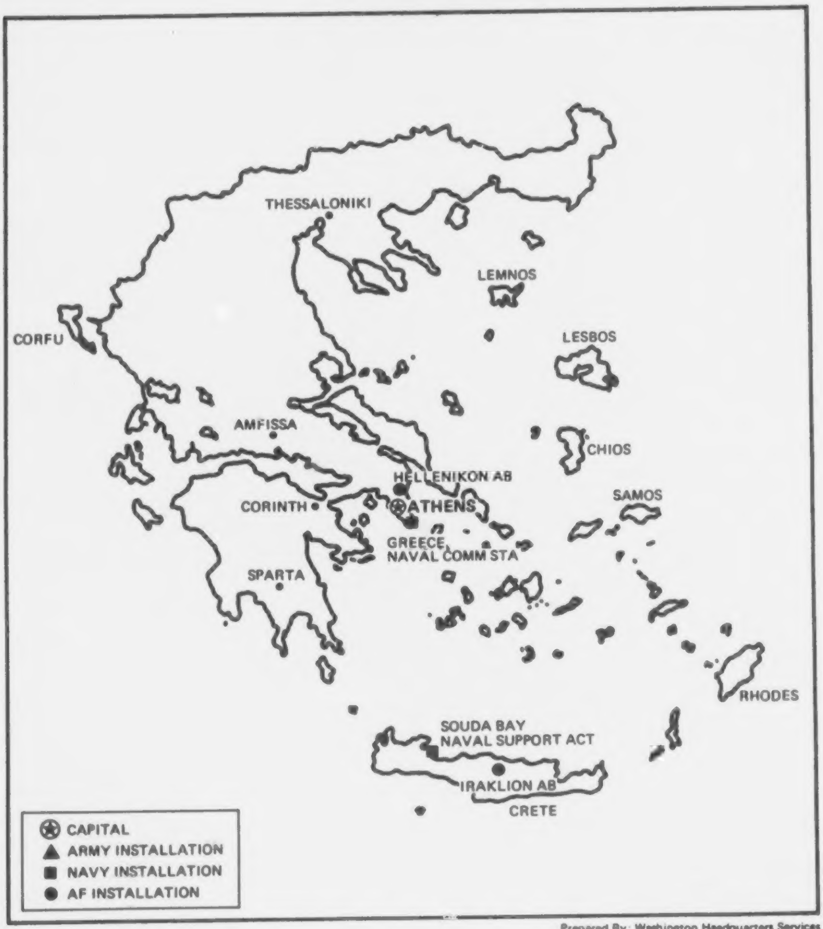
MAP NO. 66

GREECE


THESSALONIKI
LEMNOS
CORFU
LESBOS
AMFISSA
CHIOS
HELLENIKON AB
SAMOS
CORINTH
ATHENS
GREECE NAVAL COMM STA
SPARTA
RHODES
SOUDA BAY NAVAL SUPPORT ACT
IRAKLION AB
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■ NAVY INSTALLATION
● AF INSTALLATION

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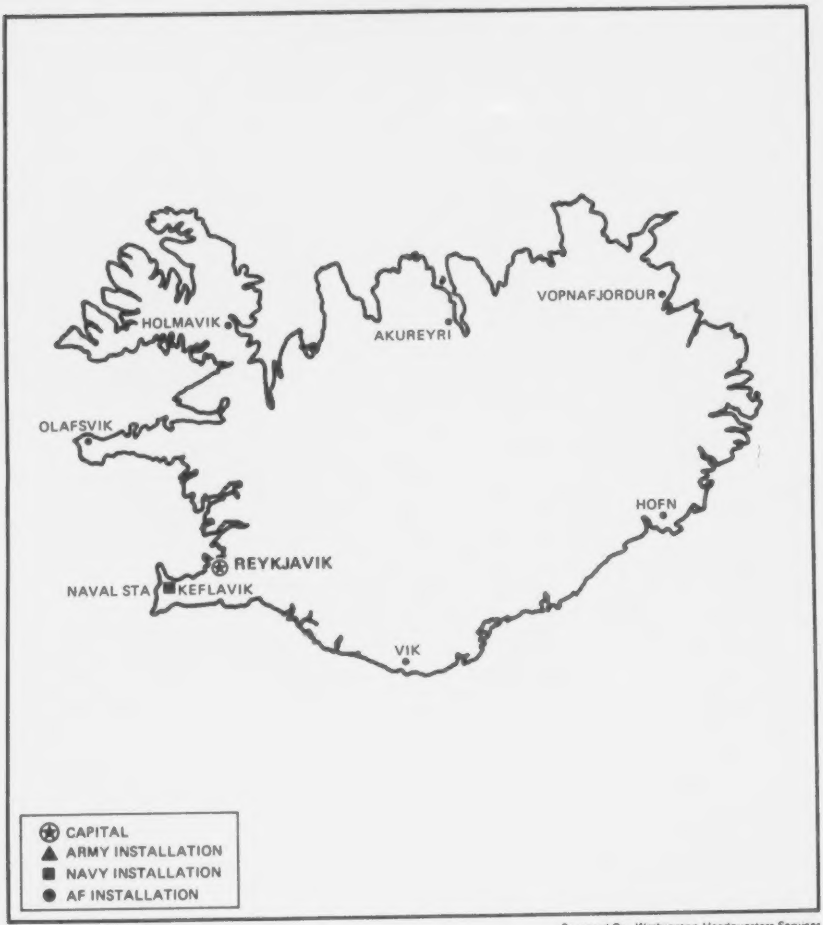
MAP NO. 67

ICELAND


HOLMAVIK
AKUREYRI
VOPNAFJORDUR
OLAFSVIK
HOFN
REYKJAVIK
NAVAL STA
KEFLAVIK
VIK
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NAVY INSTALLATION
AF INSTALLATION

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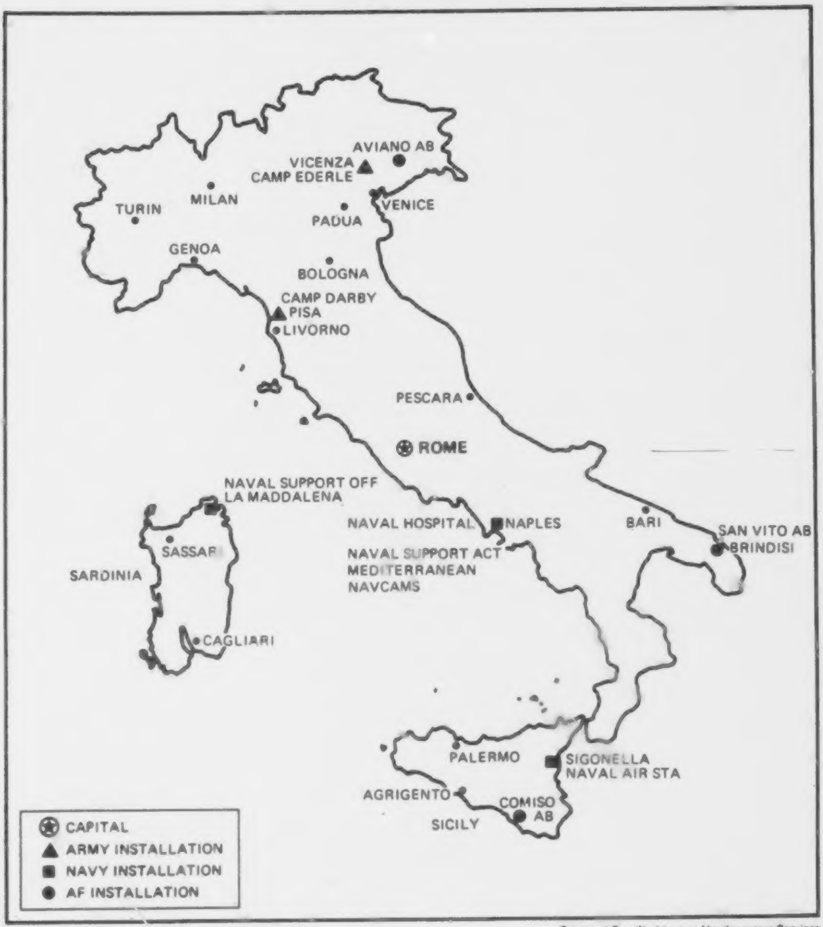
MAP NO. 68

ITALY


AVIANO AB
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CAMP EDERLE
MILAN
TURIN
PADUA
VENICE
GENOA
BOLOGNA
CAMP DARBY
PISA
LIVORNO
PESCARA
ROME
NAVAL SUPPORT OFF
LA MADDALENA
SASSARI
SARDINIA
CAGLIARI
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NAPLES
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MEDITERRANEAN
NAVCAMS
BARI
SAN VITO AB
BRINDISI
PALERMO
SIGONELLA
NAVAL AIR STA
AGRIGENTO
COMISO
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AF INSTALLATION

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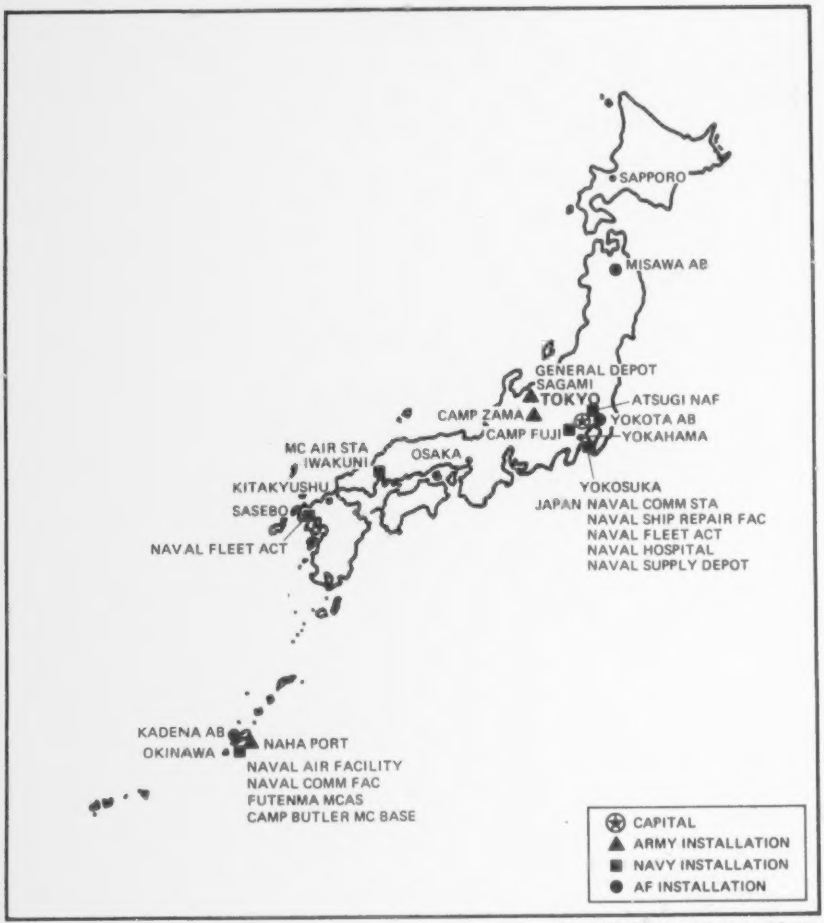
MAP NO. 69

JAPAN


SAPPORO
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GENERAL DEPOT
SAGAMI
TOKYO
ATSUGI NAF
CAMP ZAMA
YOKOTA AB
CAMP FUJI
YOKAHAMA
MC AIR STA
IWAKUNI
OSAKA
KITAKYUSHU
SASEBO
NAVAL FLEET ACT
YOKOSUKA
JAPAN NAVAL COMM STA
NAVAL SHIP REPAIR FAC
NAVAL FLEET ACT
NAVAL HOSPITAL
NAVAL SUPPLY DEPOT
KADENA AB
OKINAWA
NAHA PORT
NAVAL AIR FACILITY
NAVAL COMM FAC
FUTENMA MCAS
CAMP BUTLER MC BASE
⊛ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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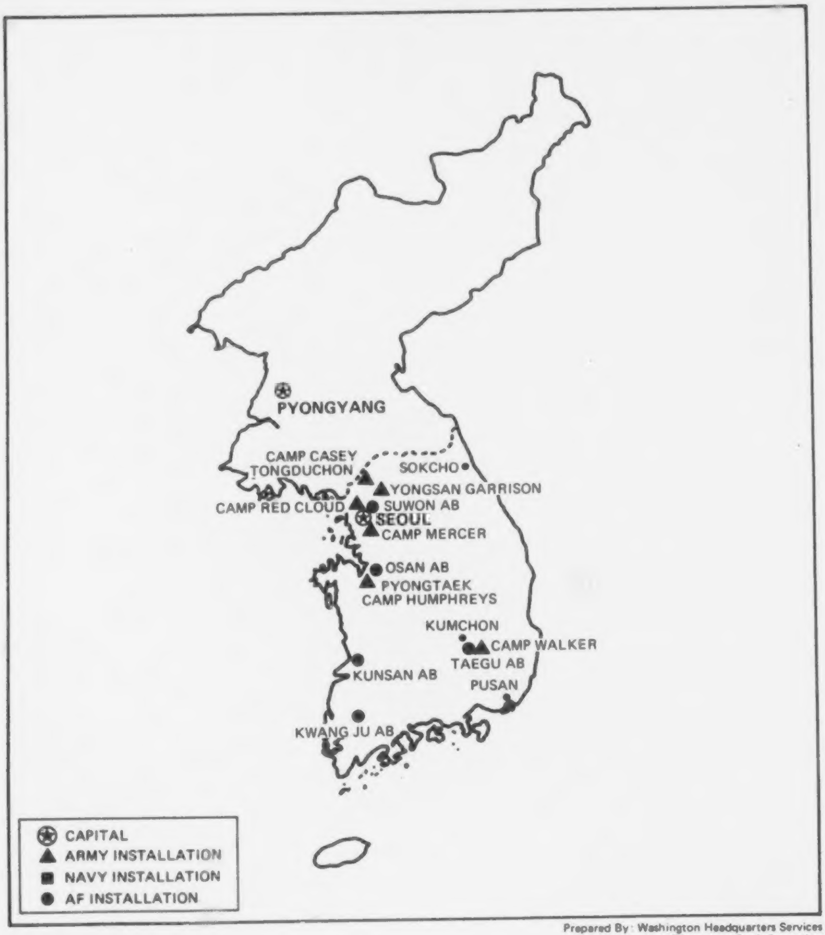
Operations and Reports

MAP NO. 70

KOREA


PYONGYANG
CAMP CASEY
TONGDUCHON
SOKCHO
YONGSAN GARRISON
SUWON AB
CAMP RED CLOUD
SEOUL
CAMP MERCER
OSAN AB
PYONGTAEK
CAMP HUMPHREYS
KUMCHON
CAMP WALKER
TAEGU AB
PUSAN
KUNSAN AB
KWANG JU AB
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NAVY INSTALLATION
AF INSTALLATION

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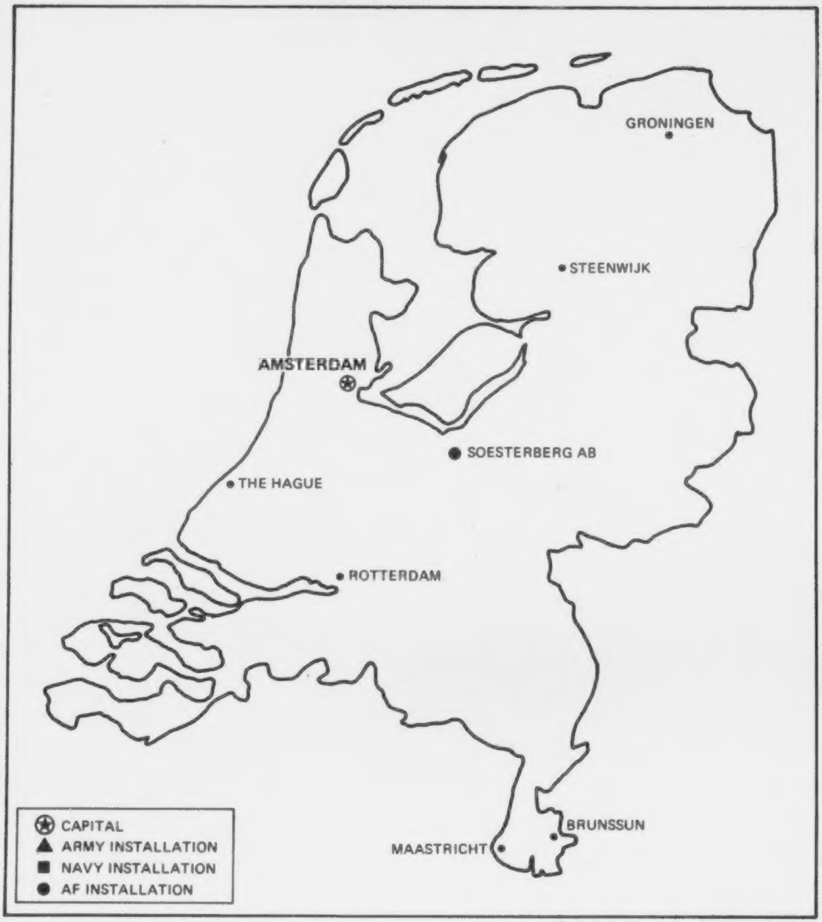
MAP NO. 71

NETHERLANDS


GRONINGEN
STEENWIJK
AMSTERDAM
SOESTERBERG AB
THE HAGUE
ROTTERDAM
BRUNSSUN
MAASTRICHT
CAPITAL
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NAVY INSTALLATION
AF INSTALLATION

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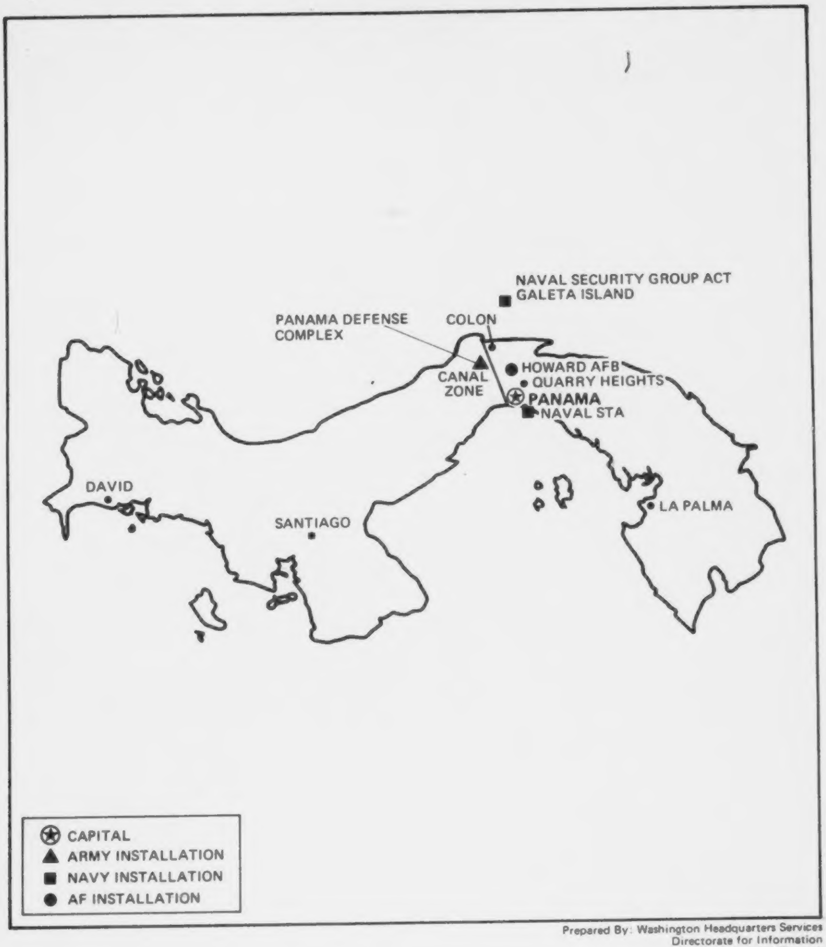
MAP NO. 72

PANAMA


NAVAL SECURITY GROUP ACT
GALETA ISLAND
PANAMA DEFENSE COMPLEX
COLON
CANAL ZONE
HOWARD AFB
QUARRY HEIGHTS
PANAMA
NAVAL STA
DAVID
SANTIAGO
LA PALMA
★ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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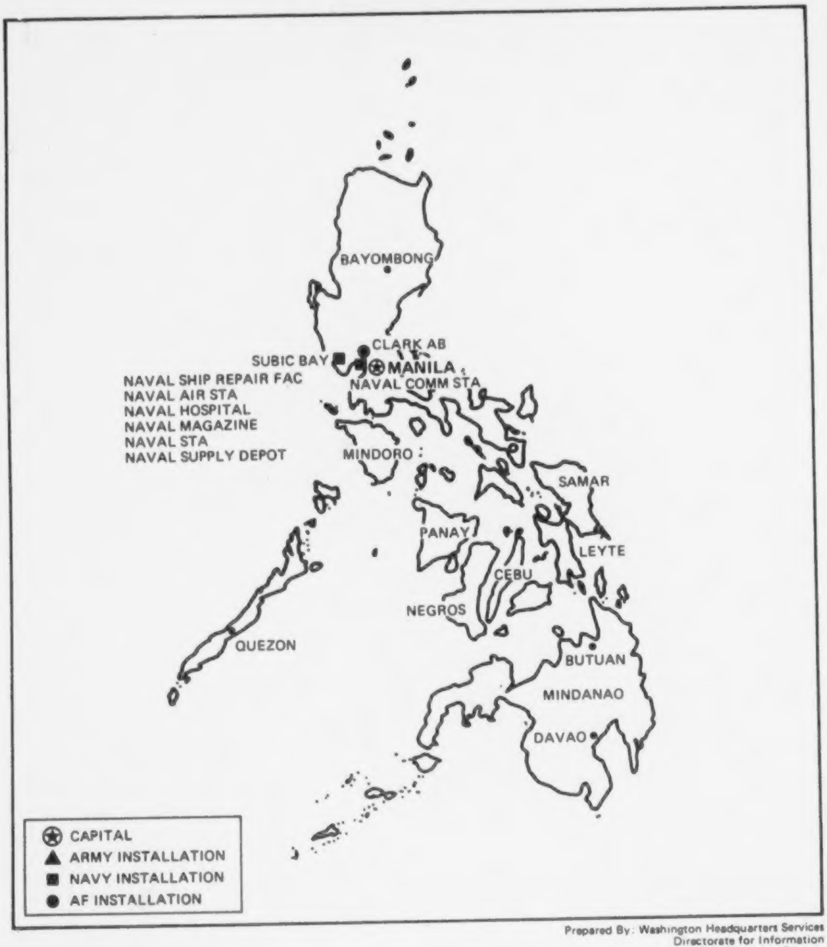
MAP NO. 73

PHILIPPINES


BAYOMBONG
CLARK AB
SUBIC BAY
MANILA
NAVAL COMM STA
NAVAL SHIP REPAIR FAC
NAVAL AIR STA
NAVAL HOSPITAL
NAVAL MAGAZINE
NAVAL STA
NAVAL SUPPLY DEPOT
MINDORO
SAMAR
PANAY
LEYTE
CEBU
NEGROS
QUEZON
BUTUAN
MINDANAO
DAVAO
CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
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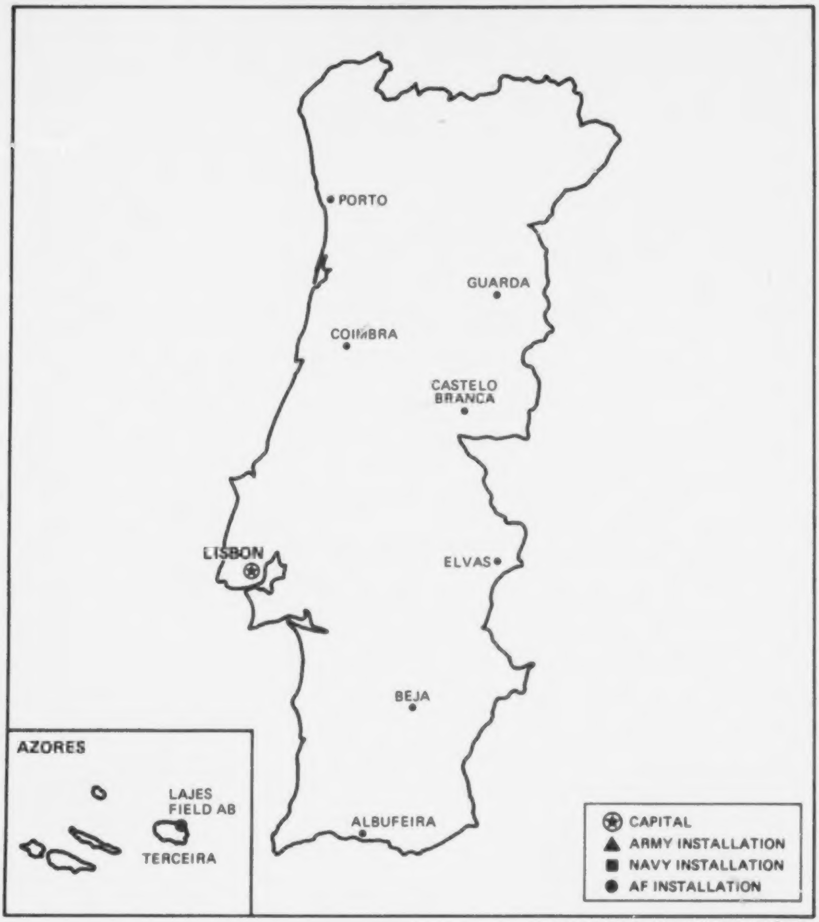
Operations and Reports

MAP NO. 74

PORTUGAL


PORTO
GUARDA
COIMBRA
CASTELO BRANCA
LISBON
ELVAS
BEJA
ALBUFEIRA
AZORES
LAJES FIELD AB
TERCEIRA
⊛ CAPITAL
▲ ARMY INSTALLATION
■ NAVY INSTALLATION
● AF INSTALLATION

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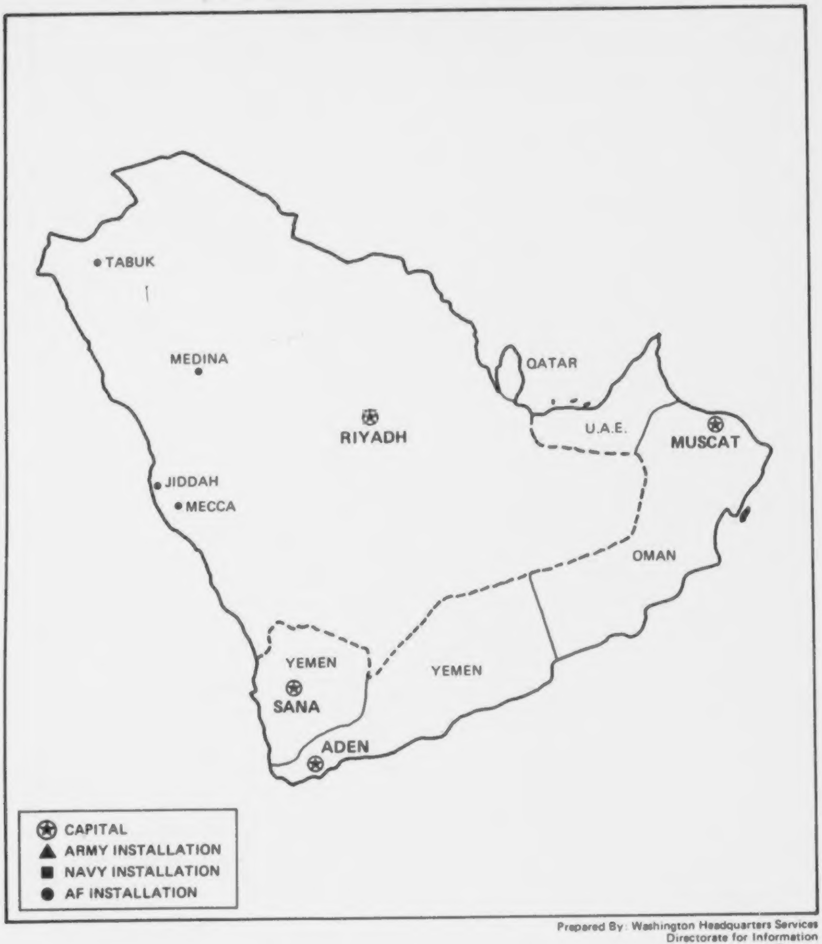
MAP NO. 75

SAUDI ARABIA


TABUK
MEDINA
QATAR
RIYADH
U.A.E.
MUSCAT
JIDDAH
MECCA
OMAN
YEMEN
YEMEN
SANA
ADEN
CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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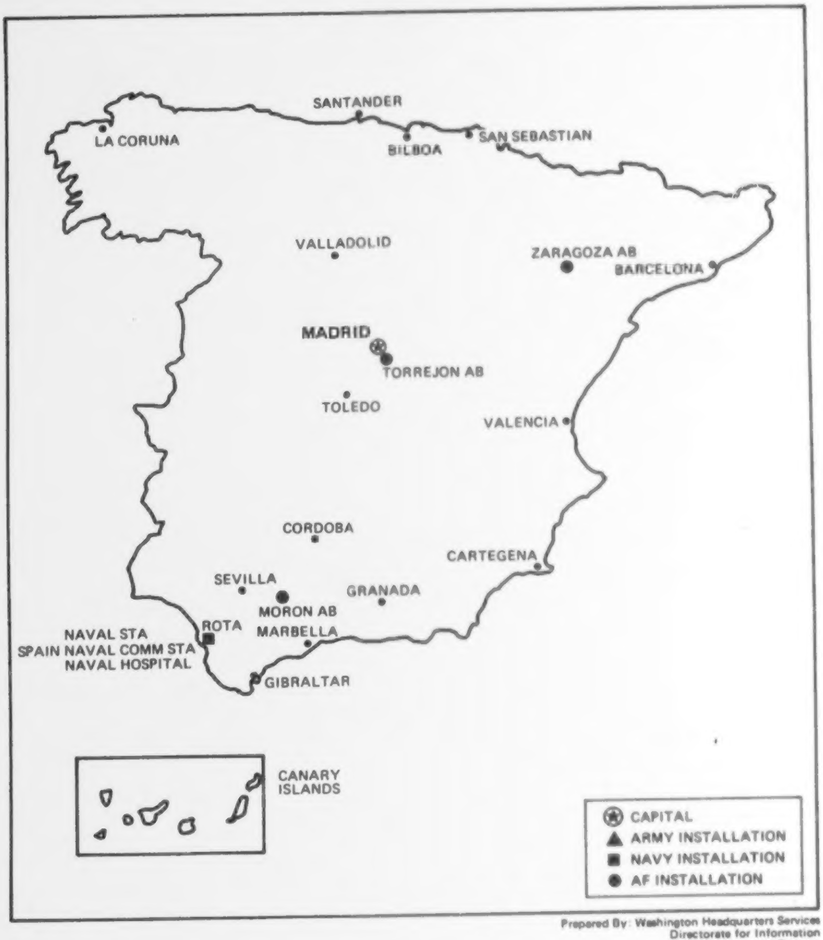
MAP NO. 76

SPAIN


SANTANDER
LA CORUNA
BILBOA
SAN SEBASTIAN
VALLADOLID
ZARAGOZA AB
BARCELONA
MADRID
TORREJON AB
TOLEDO
VALENCIA
CORDOBA
CARTEGENA
SEVILLA
GRANADA
MORON AB
ROTA
NAVAL STA
SPAIN NAVAL COMM STA
NAVAL HOSPITAL
MARBELLA
GIBRALTAR
CANARY ISLANDS
CAPITAL
ARMY INSTALLATION
NAVY INSTALLATION
AF INSTALLATION

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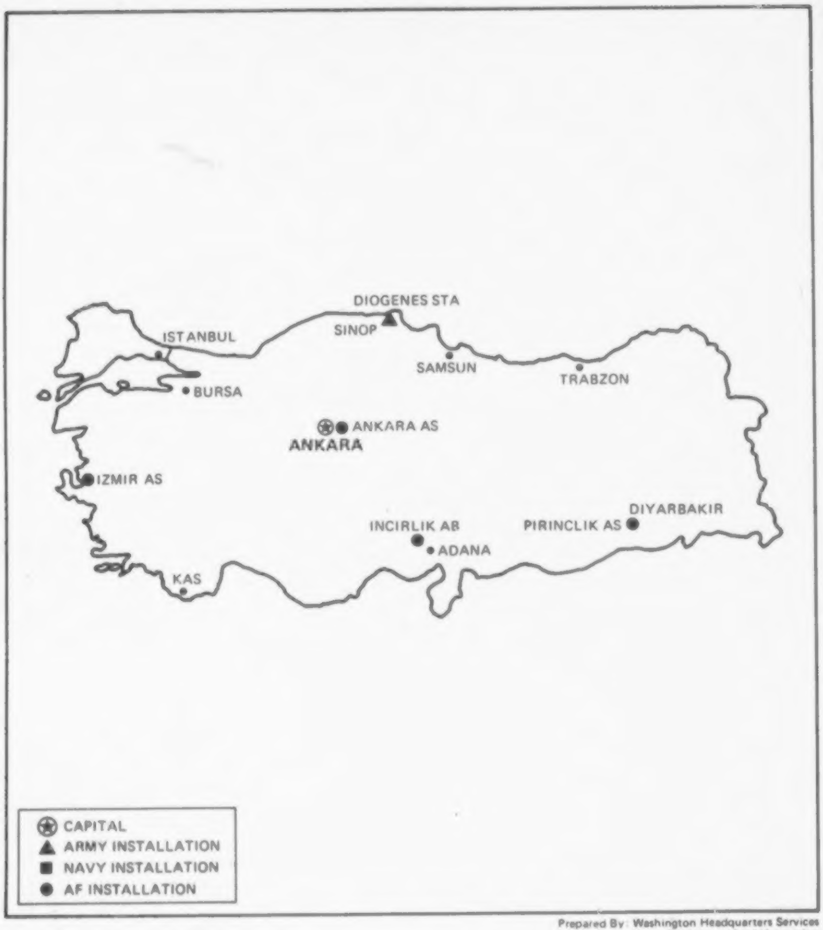
MAP NO. 77

TURKEY


DIOGENES STA
SINOP
ISTANBUL
SAMSUN
TRABZON
BURSA
ANKARA AS
ANKARA
IZMIR AS
DIYARBAKIR
INCIRLIK AB
PIRINCLIK AS
ADANA
KAS
CAPITAL
▲ ARMY INSTALLATION
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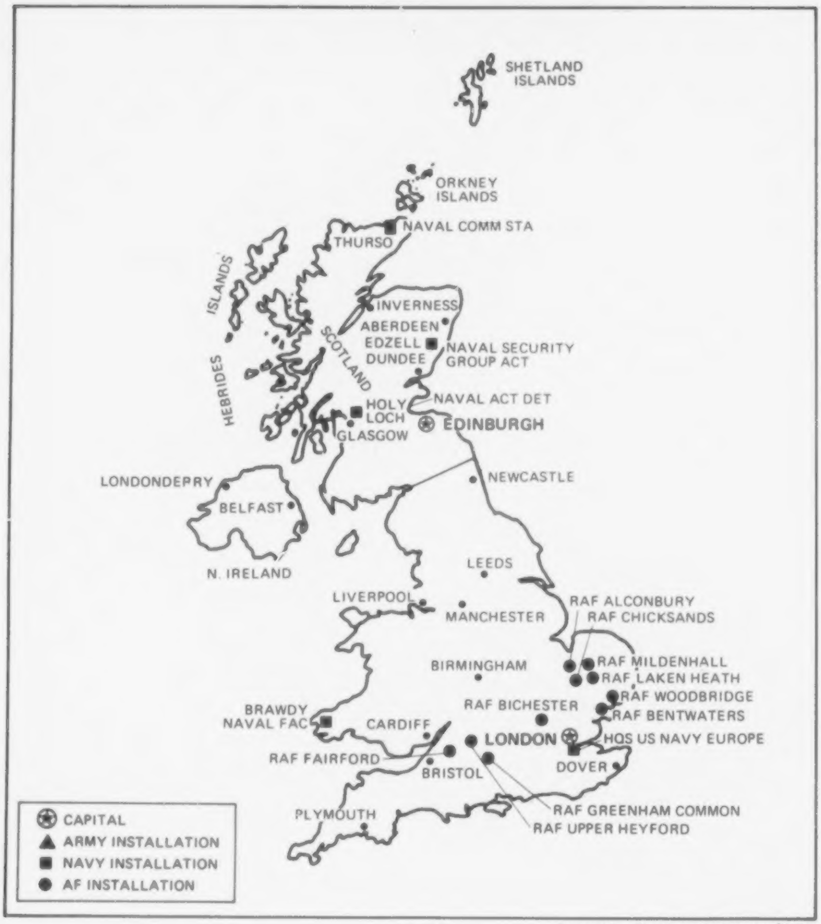
MAP NO. 78

UNITED KINGDOM


SHETLAND ISLANDS
ORKNEY ISLANDS
NAVAL COMM STA
THURSO
HEBRIDES ISLANDS
SCOTLAND
INVERNESS
ABERDEEN
EDZELL
NAVAL SECURITY GROUP ACT
DUNDEE
NAVAL ACT DET
HOLY LOCH
GLASGOW
EDINBURGH
LONDONDERRY
BELFAST
N. IRELAND
NEWCASTLE
LEEDS
LIVERPOOL
MANCHESTER
RAF ALCONBURY
RAF CHICKSANDS
BIRMINGHAM
RAF MILDENHALL
RAF LAKEN HEATH
RAF WOODBRIDGE
RAF BICHESTER
RAF BENTWATERS
BRAWDY NAVAL FAC
CARDIFF
LONDON
HQS US NAVY EUROPE
RAF FAIRFORD
BRISTOL
DOVER
PLYMOUTH
RAF GREENHAM COMMON
RAF UPPER HEYFORD
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Department of the Army

FY 1991 Budget Estimates

Military Construction, Family Housing & Homeowners Assistance

Justification Data Submitted to Congress
January 1990

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Alabama		Anniston Army Depot (AMC)			3
	211	Ammunition Demil Maintenance Facility	10,200	10,200	5
	21870	Ammunition Demilitarization Facility	54,300	54,300	9
		SUBTOTAL Anniston Army Depot PART I	$ 64,500	64,500	
		Redstone Arsenal (AMC)			13
	2687	Physical Sciences Research Center	14,400	14,400	15
		SUBTOTAL Redstone Arsenal PART I	$ 14,400	14,400	
		Fort Rucker (TRADOC)			19
	9992	Flight Simulator Building	3,400	3,400	21
		SUBTOTAL Fort Rucker PART I	$ 3,400	3,400	
		* TOTAL MCA FOR Alabama	$ 82,300	82,300	
Alaska		Fort Wainwright (WESTCOM)			27
	15277	Consolidated Fuel Facility	2,300	2,300	29
	23589	Utilities Expansion	3,300	3,300	32
		SUBTOTAL Fort Wainwright PART I	$ 5,600	5,600	
		* TOTAL MCA FOR Alaska	$ 5,600	5,600	
Arizona		Fort Huachuca (USAISC)			37
	1330	Fire Station	1,050	1,050	39
		SUBTOTAL Fort Huachuca PART I	$ 1,050	1,050	
		* TOTAL MCA FOR Arizona	$ 1,050	1,050	
Arkansas		Pine Bluff Arsenal (AMC)			45
	23899	Detection Paper Facility	1,600	1,600	47
		SUBTOTAL Pine Bluff Arsenal PART I	$ 1,600	1,600	
		* TOTAL MCA FOR Arkansas	$ 1,600	1,600	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
California		Fort Irwin (FORSCOM)				53
	21564	Hardstand/Tactical Equipment Shop		4,200	4,200	55
		SUBTOTAL Fort Irwin PART I	$	4,200	4,200	
		Fort Ord (FORSCOM)				59
	27343	Water Distribution System (Phase I)		7,400	7,400	61
		SUBTOTAL Fort Ord PART I	$	7,400	7,400	
		* TOTAL MCA FOR California	$	11,600	11,600	
Colorado		Fort Carson (FORSCOM)				67
	3663	Aviation Unit Maintenance Hangar		11,400	11,400	69
	9020	Tank Gunnery Range Upgrade		5,600	5,600	72
	16829	Tactical Equipment Shop		6,500	6,500	75
		SUBTOTAL Fort Carson PART I	$	23,500	23,500	
		Falcon Air Force Base (USAF)				79
	31074	Satellite Control Certification Facility		1,450	1,450	81
		SUBTOTAL Falcon Air Force Base PART I	$	1,450	1,450	
		* TOTAL MCA FOR Colorado	$	24,950	24,950	
Georgia		Fort Benning (TRADOC)				87
	2288	Recreation Center		3,000	3,000	89
	4629	Tactical Equipment Shop		4,950	4,950	92
	31966	Indoor Firing Range		2,930	2,930	95
		SUBTOTAL Fort Benning PART I	$	10,880	10,880	
		Fort Stewart (FORSCOM)				99
	2439	Child Development Center		1,650	1,650	101
		SUBTOTAL Fort Stewart PART I	$	1,650	1,650	
		* TOTAL MCA FOR Georgia	$	12,530	12,530	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Hawaii		Schofield Barracks (WESTCOM)			107
	10315	Army Continuing Education Center	9,700	9,700	109
		SUBTOTAL Schofield Barracks PART I	$ 9,700	9,700	
		Fort Shafter (WESTCOM)			113
	28434	Access Roads - Fort Shafter	7,400	7,400	115
		SUBTOTAL Fort Shafter PART I	$ 7,400	7,400	
		* TOTAL MCA FOR Hawaii	$ 17,100	17,100	
Indiana		Fort Benjamin Harrison (TRADOC)			119
	1676	Learning Research Center	4,300	4,300	121
	10680	Fire Station	1,300	1,300	124
		SUBTOTAL Fort Benjamin Harrison PART I	$ 5,600	5,600	
		* TOTAL MCA FOR Indiana	$ 5,600	5,600	
Kansas		Fort Leavenworth (TRADOC)			129
	11362	General Instruction Building	34,000	34,000	131
		SUBTOTAL Fort Leavenworth PART I	$ 34,000	34,000	
		Fort Riley (FORSCOM)			135
	6643	Tactical Equipment Shop	12,200	12,200	137
	9185	Multi-Purpose Machine Gun Range	2,700	2,700	140
		SUBTOTAL Fort Riley PART I	$ 14,900	14,900	
		* TOTAL MCA FOR Kansas	$ 48,900	48,900	
Kentucky		Fort Campbell (FORSCOM)			145
	4313	Modified Record Fire Range	1,250	1,250	147
	24142	Machine Gun Transition Range	1,050	1,050	150

DEPARTMENT OF THE ARMY
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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Kentucky		Port Campbell (FORSCOM) (Cont.)				145
		SUBTOTAL Port Campbell PART I	$	2,300	2,300	
		Port Knox (TRADOC)				153
	5922	Automated Record Fire Range		2,800	2,800	155
	27809	Multi Purpose Range Complex - Heavy		22,600	22,600	158
		SUBTOTAL Port Knox PART I	$	25,400	25,400	
		* TOTAL MCA FOR Kentucky	$	27,700	27,700	
Maryland		Aberdeen Proving Ground (AMC)				163
	62	Security Upgrade		1,700	1,700	165
	266	Toxicology Research Facility		33,000	33,000	167
	1752	Relocate/Modernize Fire Barricades		10,400	10,400	170
		SUBTOTAL Aberdeen Proving Ground PART I	$	45,100	45,100	
		Port Detrick (HSC)				173
	11766	Storage Facility Addition		530	530	175
		SUBTOTAL Fort Detrick PART I	$	530	530	
		* TOTAL MCA FOR Maryland	$	45,630	45,630	
Missouri		Port Leonard Wood (TRADOC)				181
	3348	Physical Fitness Training Center		8,800	8,800	183
	33008	Applied Instruction Facility		900	900	186
		SUBTOTAL Fort Leonard Wood PART I	$	9,700	9,700	
		* TOTAL MCA FOR Missouri	$	9,700	9,700	

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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
New York		Fort Drum (FORSCOM)			191
	14232	Central Wash Facility	8,800	8,800	193
	28270	General Instruction Building	608	608	196
		SUBTOTAL Fort Drum PART I	$ 9,408	9,408	
		* TOTAL MCA FOR New York	$ 9,408	9,408	
North Carolina		Fort Bragg (FORSCOM)			201
	7023	Battalion Headquarters	1,850	1,850	203
	13485	Tactical Equipment Shop	11,600	11,600	206
	17051	Installation Map Depot	1,750	1,750	209
	19177	Maintenance Facility (Phase I)	31,800	31,800	212
	28565	Tactical Equipment Shop	7,400	7,400	216
		SUBTOTAL Fort Bragg PART I	$ 54,400	54,400	
		* TOTAL MCA FOR North Carolina	$ 54,400	54,400	
Oklahoma		Fort Sill (TRADOC)			221
	11695	Communications-Electronics Lab Addn	3,550	3,550	223
	14087	Modernize Sewage Treatment Plant	21,600	21,600	226
		SUBTOTAL Fort Sill PART I	$ 25,150	25,150	
		* TOTAL MCA FOR Oklahoma	$ 25,150	25,150	
Pennsylvania		Carlisle Barracks (TRADOC)			231
	21435	Center for Strategic Wargaming	25,000	25,000	233
	21436	Child Development Center	1,200	1,200	236
		SUBTOTAL Carlisle Barracks PART I	$ 26,200	26,200	
		Fort Indiantown Gap (FORSCOM)			239
	9223	Ammunition Supply Point	1,350	1,350	241
	22518	Cold Storage Warehouse	5,000	5,000	244

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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Pennsylvania		Fort Indiantown Gap (FORSCOM) (Cont.)			239
		SUBTOTAL Fort Indiantown Gap PART I	$ 6,350	6,350	
		Tobyhanna Army Depot (AMC)			247
	9077	Satellite Systems Maintenance Facility	6,800	6,800	249
		SUBTOTAL Tobyhanna Army Depot PART I	$ 6,800	6,800	
		* TOTAL MCA FOR Pennsylvania	$ 39,350	39,350	
South Carolina		Fort Jackson (TRADOC)			255
	12719	Automated Record Fire Range	1,600	1,600	257
		SUBTOTAL Fort Jackson PART I	$ 1,600	1,600	
		* TOTAL MCA FOR South Carolina	$ 1,600	1,600	
Texas		Fort Hood (FORSCOM)			263
	4718	Modified Record Fire Range	1,650	1,650	265
	7152	Range Control Facility	4,400	4,400	268
	8939	Consolidated Maintenance Facility	22,700	22,700	271
	13707	Range Modernization	3,050	3,050	274
	22610	Barracks Modernization	11,000	11,000	277
	32014	Replace Vehicular Bridges	469	469	280
		SUBTOTAL Fort Hood PART I	$ 43,269	43,269	
		Fort Sam Houston (FORSCOM)			283
	2526	Physical Fitness Training Center	7,100	7,100	285
	11417	Medical Research Laboratory	13,400	13,400	288
	12204	Consolidated Maintenance Facility	13,200	13,200	291
		SUBTOTAL Fort Sam Houston PART I	$ 33,700	33,700	
		* TOTAL MCA FOR Texas	$ 76,969	76,969	

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(DOLLARS ARE IN THOUSANDS)
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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Utah		Dugway Proving Ground (AMC)				297
	17535	Simulant Mixing Facility		450	450	299
		SUBTOTAL Dugway Proving Ground PART I	$	450	450	
		Tooele Army Depot (AMC)				303
	32497	Ammunition Demilitarization Support Fac		11,800	11,800	305
		SUBTOTAL Tooele Army Depot PART I	$	11,800	11,800	
		* TOTAL MCA FOR Utah	$	12,250	12,250	
Virginia		Fort Belvoir (MDW)				311
	17480	Fixed Wing Runway		1,400	1,400	313
	18122	Fire Station		1,100	1,100	316
	31321	Access Road - Fort Belvoir		3,000	3,000	319
		SUBTOTAL Fort Belvoir PART I	$	5,500	5,500	
		Fort Eustis (TRADOC)				321
	15981	Harbor Control Facility		530	530	323
		SUBTOTAL Fort Eustis PART I	$	530	530	
		Fort A P Hill (FORSCOM)				327
	9912	Fuel Storage Facility		3,200	3,200	329
		SUBTOTAL Fort A P Hill PART I	$	3,200	3,200	
		Fort Lee (TRADOC)				333
	32980	Food Service Training Facility Addition		520	520	335
		SUBTOTAL Fort Lee PART I	$	520	520	
		Fort Myer (MDW)				339
	25248	Child Development Center		2,150	2,150	341
		SUBTOTAL Fort Myer PART I	$	2,150	2,150	

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(DOLLARS ARE IN THOUSANDS)
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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Virginia		Fort Story (TRADOC) (Cont.)				345
	3256	Emergency Services Building		1,600	1,600	347
		SUBTOTAL Fort Story PART I	$	1,600	1,600	
		* TOTAL MCA FOR Virginia	$	13,500	13,500	
Washington		Fort Lewis (FORSCOM)				353
	2314	Automated Record Fire Range		1,250	1,250	355
	6995	Tactical Support Center		5,100	5,100	358
	12044	Brigade Headquarters		8,800	8,800	361
	16714	Chapel Center		2,850	2,850	364
		SUBTOTAL Fort Lewis PART I	$	18,000	18,000	
		* TOTAL MCA FOR Washington	$	18,000	18,000	
Wisconsin		Fort McCoy (FORSCOM)				369
	5893	Multi-Purpose Training Range		8,900	8,900	371
	8797	Central Wash Facility		5,000	5,000	375
	12281	Central Fuel Storage Facility		5,500	5,500	378
	18959	Cold Storage Warehouse		5,000	5,000	382
		SUBTOTAL Fort McCoy PART I	$	24,400	24,400	
		* TOTAL MCA FOR Wisconsin	$	24,400	24,400	
US Various		Classified US Location (USVAR)				387
	30542	Classified Project		3,000	3,000	389
		SUBTOTAL Classified US Location PART I	$	3,000	3,000	
		* TOTAL MCA FOR US Various	$	3,000	3,000	
**TOTAL INSIDE THE UNITED STATES FOR MCA			$	572,287	572,287	

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(DOLLARS ARE IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Germany		Germany Various (USAREUR)			393
		Giessen			
	14216	Tank Crew Combat Course	2,250	2,250	397
		Grafenwoehr			
	11657	Ready Building	3,500	3,500	400
	28389	Pave Tank Trail	1,630	1,630	403
	31320	Applied Instruction Facility	5,700	5,700	406
		Heilbronn			
	16203	Hardstand & Wash Facility	5,500	5,500	409
		Hohenfels			
	14215	Education Center Addition	610	610	412
	15703	Library Addition	550	550	415
	15817	Physical Fitness Training Center	3,350	3,350	418
	15818	Military Police Station Addition	1,300	1,300	420
	25237	Hardstand & Maintenance Sheds	4,350	4,350	423
		Kaiserslautern			
	24030	Missile Maintenance Shop	5,000	5,000	426
		Mannheim			
	29457	Vehicle Maintenance Sheds	7,600	7,600	429
		Various Sites			
	29459	Wartime Host Nation Support	2,500	2,500	432
	31718	Record Fire Ranges	4,053	4,053	436
		Vilseck			
	5210	Hardstand/Tactical Equipment Shop & Sheds	8,500	8,500	439
	5248	Fire Station	1,250	1,250	442
	5249	Chapel Center/Religious Education Fac	3,300	3,300	445
	5254	Multi-Purpose Auditorium Facility	2,550	2,550	448
		SUBTOTAL Germany Various PART I	$ 63,493	63,493	
		* TOTAL MCA FOR Germany	$ 63,493	63,493	
Japan		Japan Various (USARJ)			453
		Honshu			
	14565	Ammunition Surveillance Facility	2,050	2,050	455
	26592	Ammunition Storage	8,400	8,400	457
		SUBTOTAL Japan Various PART I	$ 10,450	10,450	
		* TOTAL MCA FOR Japan	$ 10,450	10,450	

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STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Korea		Korea Various (EUSA)			463
		Eastern Corridor			
	14662	Barracks	8,690	8,690	465
	14773	Tactical Equipment Shop	8,500	8,500	468
		Various Sites			
	28229	Ammunition Storage	11,000	11,000	471
		Western Corridor			
	24262	Tactical Equipment Shop	1,800	1,800	474
		Yongsan			
	22035	Flight Simulator Building	1,500	1,500	477
		SUBTOTAL Korea Various PART I	$ 31,490	31,490	
		* TOTAL MCA FOR Korea	$ 31,490	31,490	
**TOTAL OUTSIDE THE UNITED STATES FOR MCA			$ 105,433	105,433	

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WORLDWIDE

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Worldwide Various		Minor Construction (MINEXG)				489
	27494	Minor Construction Unspecified		7,603	7,603	491
		SUBTOTAL Minor Construction PART I	$	7,603	7,603	
		Planning and Design (PLANDES)				483
	27492	Planning and Design		89,577	89,577	485
		SUBTOTAL Planning and Design PART I	$	89,577	89,577	
		* TOTAL MCA FOR Worldwide Various	$	97,180	97,180	
**TOTAL WORLDWIDE FOR MCA			$	97,180	97,180	
MILITARY CONSTRUCTION (PART 1) TOTAL			$	774,900	774,900	

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FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Alabama	Anniston Army Depot	000211	Ammunition Demil Maintenance Facility	0	10,200	10,200
		021870	Ammunition Demilitarization Facility	34,300	20,000	54,300
	TOTAL for INSTALLATION Anniston Army Depot			34,300	30,200	64,500
	Fort McClellan	021494	Dining Facility	3,100	-3,100	0
	Fort Rucker	009992	Flight Simulator Building	3,150	250	3,400
	Redstone Arsenal	002687	Physical Sciences Research Center	0	14,400	14,400
		033449	Child Development Center	0	0	0
	TOTAL for INSTALLATION Redstone Arsenal			0	14,400	14,400
TOTAL for STATE Alabama				40,550	41,750	82,300
Alaska	Fort Wainwright	015277	Consolidated Fuel Facility	2,400	-100	2,300
		023589	Utilities Expansion	3,650	-350	3,300
	TOTAL for INSTALLATION Fort Wainwright			6,050	-450	5,600
TOTAL for STATE Alaska				6,050	-450	5,600
Arizona	Fort Huachuca	001330	Fire Station	860	190	1,050
Arkansas	Pine Bluff Arsenal	002920	Ammunition Demilitarization Facility	17,100	-17,100	0
		023899	Detection Paper Facility	1,450	150	1,600
	TOTAL for INSTALLATION Pine Bluff Arsenal			18,550	-16,950	1,600
TOTAL for STATE Arkansas				18,550	-16,950	1,600
California	Fort Irwin	021564	Hardstand/Tactical Equipment Shop	3,700	500	4,200
	Fort Ord	016734	Dining Facility	7,500	-7,500	0
		027343	Water Distribution System (Phase I)	7,800	-400	7,400
	TOTAL for INSTALLATION Fort Ord			15,300	-7,900	7,400
TOTAL for STATE California				19,000	-7,400	11,600

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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Colorado	Falcon Air Force Base	031074	Satellite Control Certification Facility	0	1,450	1,450
	Fort Carson	003663	Aviation Unit Maintenance Hangar	11,400	0	11,400
		009020	Tank Gunnery Range Upgrade	5,600	0	5,600
		016829	Tactical Equipment Shop	7,600	-1,100	6,500
	TOTAL for INSTALLATION Fort Carson					
TOTAL for STATE Colorado				24,600	-1,100	23,500
				24,600	350	24,950
Georgia	Fort Benning	002288	Recreation Center	0	3,000	3,000
		004629	Tactical Equipment Shop	0	4,950	4,950
		031966	Indoor Firing Range	0	2,930	2,930
	TOTAL for INSTALLATION Fort Benning					
				0	10,880	10,880
	Fort McPherson	033450	Child Development Center	0	0	0
	Fort Stewart	002439	Child Development Center	0	1,650	1,650
		020909	Special Operations Forces Headquarters	1,800	-1,800	0
		020997	Tactical Equipment Shop	3,000	-3,000	0
	TOTAL for INSTALLATION Fort Stewart					
TOTAL for STATE Georgia				4,800	-3,150	1,650
				4,800	7,730	12,530
Hawaii	Fort Shafter	028434	Access Roads - Fort Shafter	5,500	1,900	7,400
	Schofield Barracks	010315	Army Continuing Education Center	9,600	100	9,700
TOTAL for STATE Hawaii				15,100	2,000	17,100
Illinois	Savanna Army Depot	016441	Function Test Range	890	-890	0
Indiana	Fort Benjamin Harrison	001676	Learning Research Center	0	4,300	4,300
		010680	Fire Station	0	1,300	1,300
	TOTAL for INSTALLATION Fort Benjamin Harrison					
TOTAL for STATE Indiana				0	5,600	5,600
				0	5,600	5,600

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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Kansas	Fort Leavenworth	011362	General Instruction Building	35,000	-1,000	34,000
	Fort Riley	006643	Tactical Equipment Shop	0	12,200	12,200
		009185	Multi-Purpose Machine Gu[illegible]ange	2,550	150	2,700
	TOTAL for INSTALLATION Fort Riley			2,550	12,350	14,900
TOTAL for STATE Kansas				37,550	11,350	48,900
Kentucky	Fort Campbell	004313	Modified Record Fire Range	1,250	0	1,250
		024142	Machine Gun Transition Range	880	170	1,050
	TOTAL for INSTALLATION Fort Campbell			2,130	170	2,300
	Fort Knox	005922	Automated Record Fire Range	0	2,800	2,800
		027809	Multi Purpose Range Complex - Heavy	17,450	5,150	22,600
	TOTAL for INSTALLATION Fort Knox			17,450	7,950	25,400
TOTAL for STATE Kentucky				19,580	8,120	27,700
Louisiana	Fort Polk	009094	Central Wash Facility Modernization	880	-880	0
Maryland	Aberdeen Proving Ground	000062	Security Upgrade	2,050	-350	1,700
		000266	Toxicology Research Facility	0	33,000	33,000
		001752	Relocate/Modernize Fire Barricades	10,200	200	10,400
	TOTAL for INSTALLATION Aberdeen Proving Ground			12,250	32,850	45,100
	Fort Detrick	011766	Storage Facility Addition	550	-20	530
TOTAL for STATE Maryland				12,800	32,830	45,630
Michigan	Detroit Arsenal	033447	Child Development Center	0	0	0
Missouri	Fort Leonard Wood	003348	Physical Fitness Training Center	8,600	200	8,800
		033008	Applied Instruction Facility	0	900	900
	TOTAL for INSTALLATION Fort Leonard Wood			8,600	1,100	9,700
TOTAL for STATE Missouri				8,600	1,100	9,700

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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
New Jersey	Fort Dix	014090	Sewage Treatment Plant	26,000	-26,000	0
	Fort Monmouth	002836	Satellite Control System Addition	6,400	-6,400	0
TOTAL for STATE New Jersey				32,400	-32,400	0
New York	Fort Drum	014232	Central Wash Facility	11,000	-2,200	8,800
		028270	General Instruction Building	0	608	608
	TOTAL for INSTALLATION Fort Drum			11,000	-1,592	9,408
	U S Military Academy	010488	Structural Upgrade - Eisenhower Hall	5,400	-5,400	0
TOTAL for STATE New York				16,400	-6,992	9,408
North Carolina	Fort Bragg	007023	Battalion Headquarters	0	1,850	1,850
		010277	Special Operations Command Headquarters	21,000	-21,000	0
		010833	Child Development Centers	5,300	-5,300	0
		013485	Tactical Equipment Shop	11,600	0	11,600
		017051	Installation Map Depot	1,750	0	1,750
		019177	Maintenance Facility (Phase I)	29,700	2,100	31,800
		028565	Tactical Equipment Shop	7,100	300	7,400
	TOTAL for INSTALLATION Fort Bragg			76,450	-22,050	54,400
TOTAL for STATE North Carolina				76,450	-22,050	54,400
Oklahoma	Fort Sill	011695	Communications-Electronics Lab Addn	3,300	250	3,550
		014087	Modernize Sewage Treatment Plant	19,000	2,600	21,600
	TOTAL for INSTALLATION Fort Sill			22,300	2,850	25,150
TOTAL for STATE Oklahoma				22,300	2,850	25,150
Oregon	Umatilla Depot Activity	017701	Ammunition Demilitarization Facility	45,500	-45,500	0
Pennsylvania	Carlisle Barracks	003262	Strategic and History Facility Renovation	1,750	-1,750	0
		021435	Center for Strategic Wargaming	25,000	0	25,000
		021436	Child Development Center	1,100	100	1,200
	TOTAL for INSTALLATION Carlisle Barracks			27,850	-1,650	26,200

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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Pennsylvania	Fort Indiantown Gap	009223	Ammunition Supply Point	0	1,350	1,350
		022518	Cold Storage Warehouse	4,600	400	5,000
	TOTAL for INSTALLATION Fort Indiantown Gap			4,600	1,750	6,350
	Tobyhanna Army Depot	009077	Satellite Systems Maintenance Facility	6,450	350	6,800
TOTAL for STATE Pennsylvania				38,900	450	39,350
South Carolina	Fort Jackson	012719	Automated Record Fire Range	0	1,600	1,600
Texas	Fort Hood	004718	Modified Record Fire Range	1,650	0	1,650
		007152	Range Control Facility	6,400	-2,000	4,400
		008939	Consolidated Maintenance Facility	21,000	1,700	22,700
		013707	Range Modernization	3,350	-300	3,050
		016843	Barracks Modernization	11,000	-11,000	0
		022610	Barracks Modernization	0	11,000	11,000
		032014	Replace Vehicular Bridges	0	469	469
	TOTAL for INSTALLATION Fort Hood			43,400	-131	43,269
	Fort Sam Houston	002526	Physical Fitness Training Center	7,500	-400	7,100
		010648	Medical Systems Equipment Training Complex	3,550	-3,550	0
		011417	Medical Research Laboratory	0	13,400	13,400
		012204	Consolidated Maintenance Facility	11,200	2,000	13,200
	TOTAL for INSTALLATION Fort Sam Houston			22,250	11,450	33,700
	Red River Army Depot	024745	Central Distribution Center-Phase IV	39,000	-39,000	0
TOTAL for STATE Texas				104,650	-27,681	76,969
Utah	Dugway Proving Ground	016299	Life Sciences Laboratory Facility	13,600	-13,600	0
		017535	Simulant Mixing Facility	440	10	450
	TOTAL for INSTALLATION Dugway Proving Ground			14,040	-13,590	450
	Tooele Army Depot	032497	Ammunition Demilitarization Support Fac	0	11,800	11,800
TOTAL for STATE Utah				14,040	-1,790	12,250

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STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
US Various	Classified US Location	030542	Classified Project	4,000	-1,000	3,000
Virginia	Fort A P Hill	009912	Fuel Storage Facility	2,500	700	3,200
	Fort Belvoir	017480	Fixed Wing Runway	1,100	300	1,400
		018122	Fire Station	1,100	0	1,100
		031321	Access Road - Fort Belvoir	0	3,000	3,000
		033446	Child Development Centers	0	0	0
	TOTAL for INSTALLATION Fort Belvoir			2,200	3,300	5,500
	Fort Eustis	015981	Harbor Control Facility	520	10	530
	Fort Lee	032980	Food Service Training Facility Addition	0	520	520
	Fort Myer	025248	Child Development Center	1,500	650	2,150
	Fort Story	003256	Emergency Services Building	0	1,600	1,600
TOTAL for STATE Virginia				6,720	6,780	13,500
Washington	Fort Lewis	002314	Automated Record Fire Range	1,050	200	1,250
		006995	Tactical Support Center	5,000	100	5,100
		012044	Brigade Headquarters	8,600	200	8,800
		016714	Chapel Center	2,900	-50	2,850
		018548	Land Acquisition for Yakima	18,500	-18,500	0
	TOTAL for INSTALLATION Fort Lewis			36,050	-18,050	18,000
TOTAL for STATE Washington				36,050	-18,050	18,000
Wisconsin	Fort McCoy	005893	Multi-Purpose Training Range	0	8,900	8,900
		008797	Central Wash Facility	5,900	-900	5,000
		012281	Central Fuel Storage Facility	1,800	3,700	5,500
		018959	Cold Storage Warehouse	4,450	550	5,000
	TOTAL for INSTALLATION Fort McCoy			12,150	12,250	24,400
TOTAL for STATE Wisconsin				12,150	12,250	24,400
TOTAL for INSIDE USA				619,370	-47,083	572,287
Germany	Ansbach	011810	Child Development Center	2,900	-2,900	0

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
AS OF 01/22/90

STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Germany	Ansbach	011879	Child Development Center	2,000	-2,000	0
	TOTAL for INSTALLATION Ansbach			4,900	-4,900	0
	Bad Kreuznach	020682	Hardstand	1,700	-1,700	0
		024065	Hardstand & Maintenance Sheds	2,700	-2,700	0
	TOTAL for INSTALLATION Bad Kreuznach			4,400	-4,400	0
	Bamberg	010355	Tactical Equipment Shop	11,000	-11,000	0
	Baumholder	014858	Hardstand & Maintenance Sheds	10,200	-10,200	0
	Bitburg	011510	Barracks	5,800	-5,800	0
		011903	Brigade Headquarters	1,700	-1,700	0
		011910	Hardstand/Tactical Equipment Shop	2,200	-2,200	0
	TOTAL for INSTALLATION Bitburg			9,700	-9,700	0
	Darmstadt	013915	Ammunition Storage	2,950	-2,950	0
	Fulda	005556	Fuel Storage Facility	2,900	-2,900	0
	Giessen	005405	Hardstand/Tactical Equipment Shop	6,800	-6,800	0
		011279	Hardstand/Tactical Equipment Shop & Sheds	14,800	-14,800	0
		011304	Hardstand & Maintenance Sheds	9,200	-9,200	0
		014216	Tank Crew Combat Course	2,400	-150	2,250
		022366	Hardstand & Maintenance Sheds	9,400	-9,400	0
	TOTAL for INSTALLATION Giessen			42,600	-40,350	2,250
	Grafenwoehr	011657	Ready Building	3,900	-400	3,500
		028389	Pave Tank Trail	0	1,630	1,630
		031320	Applied Instruction Facility	0	5,700	5,700
	TOTAL for INSTALLATION Grafenwoehr			3,900	6,930	10,830
	Hanau	014160	Hardstand & Wash Facility	5,000	-5,000	0
	Heilbronn	016203	Hardstand & Wash Facility	0	5,500	5,500
	Hohenfels	014215	Education Center Addition	660	-50	610
		015703	Library Addition	0	550	550
		015817	Physical Fitness Training Center	3,550	-200	3,350
		015818	Military Police Station Addition	0	1,300	1,300
		025237	Hardstand & Maintenance Sheds	0	4,350	4,350
	TOTAL for INSTALLATION Hohenfels			4,210	5,950	10,160

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
AS OF 01/22/90

STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Germany	Kaiserslautern	013719	Hardstand & Maintenance Shop	4,700	-4,700	0
		024030	Missile Maintenance Shop	4,950	50	5,000
	TOTAL for INSTALLATION Kaiserslautern			9,650	-4,650	5,000
	Karlsruhe	012171	Hardstand/Tactical Equipment Shop	9,000	-9,000	0
	Mannheim	029457	Vehicle Maintenance Sheds	0	7,600	7,600
	Pirmasens	022248	Emergency Defueling Area	1,000	-1,000	0
	Rheinberg	021954	Tactical Equipment Shops/Hardstand	6,600	-6,600	0
		022164	Community Support Facilities	2,850	-2,850	0
	TOTAL for INSTALLATION Rheinberg			9,450	-9,450	0
	Schweinfurt	012425	Ammunition Storage Addition	1,300	-1,300	0
	Various Sites	029459	Wartime Host Nation Support	2,500	0	2,500
		031718	Record Fire Ranges	0	4,053	4,053
	TOTAL for INSTALLATION Various Sites			2,500	4,053	6,553
	Vilseck	005210	Hardstand/Tactical Equipment Shop & Sheds	0	8,500	8,500
		005248	Fire Station	1,400	-150	1,250
		005249	Chapel Center/Religious Education Fac	3,100	200	3,300
		005254	Multi-Purpose Auditorium Facility	2,650	-100	2,550
	TOTAL for INSTALLATION Vilseck			7,150	8,450	15,600
	Wildflecken	014887	Hardstand & Maintenance Shops	12,400	-12,400	0
	Worms	022193	Tactical Equipment Shop	1,350	-1,350	0
	Wuerzburg	012469	Vehicle Maintenance Sheds	11,800	-11,800	0
TOTAL for STATE Germany				167,360	-103,867	63,493
Honduras	Honduras Various	026086	Barracks Modernization	2,400	-2,400	0
Japan	Japan Various	014565	Ammunition Surveillance Facility	2,500	-450	2,050
		018105	Relocate Field Offices	2,900	-2,900	0
		026592	Ammunition Storage	9,400	-1,000	8,400
	TOTAL for INSTALLATION Japan Various			14,800	-4,350	10,450
TOTAL for STATE Japan				14,800	-4,350	10,450

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
AS OF 01/22/90

STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Korea	Camp Carroll	013961	Child Development Center	890	-890	0
	Camp Casey	014662	Barracks	0	8,690	8,690
		028676	Barracks	5,600	-5,600	0
		029517	Barracks	2,800	-2,800	0
	TOTAL for INSTALLATION Camp Casey			8,400	290	8,690
	Camp Castle	012997	Unaccompanied Personnel Housing	3,950	-3,950	0
	Camp Garry Owen	014746	Dining Facility	1,500	-1,500	0
		024262	Tactical Equipment Shop	0	1,800	1,800
	TOTAL for INSTALLATION Camp Garry Owen			1,500	300	1,800
	Camp Henry	013623	Unaccompanied Personnel Housing	11,600	-11,600	0
	Camp Hovey	014773	Tactical Equipment Shop	0	8,500	8,500
	Camp Humphreys	010293	Barracks	8,800	-8,800	0
	Camp Indian	013603	Unaccompanied Personnel Housing	2,800	-2,800	0
	Camp Laguardia	029515	Barracks	2,000	-2,000	0
	Camp Long	022316	Physical Fitness Training Center	1,600	-1,600	0
	Camp Mercer	024307	Tactical Equipment Shop	3,100	-3,100	0
	Camp Nimble	014741	Dining Facility	1,600	-1,600	0
	Camp Pelham	013592	Unaccompanied Personnel Housing	9,300	-9,300	0
	Camp Sears	029506	Barracks	5,500	-5,500	0
	K-16 Airfield	022035	Flight Simulator Building	1,600	-100	1,500
	Location 177, KO	017791	Operations Facility Addition	800	-800	0
	Various Sites in Korea	028229	Ammunition Storage	8,900	2,100	11,000
TOTAL for STATE Korea				72,340	-40,850	31,490
Overseas Various	Classified Overseas Location	023196	Intermediate Staging Facility	10,500	-10,500	0
TOTAL for OUTSIDE USA				267,400	-161,967	105,433

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
AS OF 01/22/90

STATE	INSTALLATION	PROJECT NUMBER	PROJECT DESCRIPTION	ORIGINAL REQUEST (APR 89)	CHANGE	REQUEST (JAN 90)
Worldwide Various	Minor Construction	027494	Minor Construction Unspecified	12,000	-4,397	7,603
	Planning and Design	027492	Planning and Design	96,530	-6,953	89,577
TOTAL for STATE Worldwide Various				108,530	-11,350	97,180
TOTAL for OTHERS				108,530	-11,350	97,180
TOTAL				995,300	-220,400	774,900

FY 91 MCA Construction Projects

Inside The United States

State	Location	Project	Cost ($000)	New/ Current
Alabama	Anniston Army Depot	Ammunition Demil Maintenance Facility	10,200	N
Alabama	Anniston Army Depot	Ammunition Demilitarization Facility	54,300	N
Alabama	Redstone Arsenal	Physical Sciences Research Center	14,400	C
Alabama	Fort Rucker	Flight Simulator Building	3,400	C
Alaska	Fort Wainwright	Consolidated Fuel Facility	2,300	N
Alaska	Fort Wainwright	Utilities Expansion	3,300	N
Arizona	Fort Huachuca	Fire Station	1,050	C
Arkansas	Pine Bluff Arsenal	Detection Paper Facility	1,600	N
California	Fort Irwin	Hardstand/Tactical Equipment Shop	4,200	N
California	Fort Ord	Water Distribution System (Phase I)	7,400	C
Colorado	Fort Carson	Aviation Unit Maintenance Hangar	11,400	C
Colorado	Fort Carson	Tank Gunnery Range Upgrade	5,600	C
Colorado	Fort Carson	Tactical Equipment Shop	6,500	C
Colorado	Falcon Air Force Base	Satellite Control Certification Facility	1,450	C
Georgia	Fort Benning	Recreation Center	3,000	C
Georgia	Fort Benning	Tactical Equipment Shop	4,950	C
Georgia	Fort Benning	Indoor Firing Range	2,930	C
Georgia	Fort Stewart	Child Development Center	1,650	C
Hawaii	Schofield Barracks	Army Continuing Education Center	9,700	C
Hawaii	Fort Shafter	Access Roads - Fort Shafter	7,400	C
Indiana	Fort Benjamin Harrison	Learning Research Center	4,300	C
Indiana	Fort Benjamin Harrison	Fire Station	1,300	C
Kansas	Fort Leavenworth	General Instruction Building	34,000	C
Kansas	Fort Riley	Tactical Equipment Shop	12,200	C
Kansas	Fort Riley	Multi-Purpose Machine Gun Range	2,700	C
Kentucky	Fort Campbell	Modified Record Fire Range	1,250	C
Kentucky	Fort Campbell	Machine Gun Transition Range	1,050	C
Kentucky	Fort Knox	Automated Record Fire Range	2,800	C
Kentucky	Fort Knox	Multi Purpose Range Complex - Heavy	22,600	C
Maryland	Aberdeen Proving Ground	Security Upgrade	1,700	C
Maryland	Aberdeen Proving Ground	Toxicology Research Facility	33,000	C
Maryland	Aberdeen Proving Ground	Relocate/Modernize Fire Barricades	10,400	C
Maryland	Fort Detrick	Storage Facility Addition	530	C
Missouri	Fort Leonard Wood	Physical Fitness Training Center	8,800	C
Missouri	Fort Leonard Wood	Applied Instruction Facility	900	C

FY 91 MCA Construction Projects

Inside The United States (Continued)

State	Location	Project	Cost ($000)	New/ Current
New York	Fort Drum	Central Wash Facility	8,800	C
New York	Fort Drum	General Instruction Building	608	C
North Carolina	Fort Bragg	Battalion Headquarters	1,850	N
North Carolina	Fort Bragg	Tactical Equipment Shop	11,600	N
North Carolina	Fort Bragg	Installation Map Depot	1,750	C
North Carolina	Fort Bragg	Maintenance Facility (Phase I)	31,800	C
North Carolina	Fort Bragg	Tactical Equipment Shop	7,400	C
Oklahoma	Fort Sill	Communications-Electronics Lab Addn	3,550	C
Oklahoma	Fort Sill	Modernize Sewage Treatment Plant	21,600	C
Pennsylvania	Carlisle Barracks	Center for Strategic Wargaming	25,000	C
Pennsylvania	Carlisle Barracks	Child Development Center	1,200	C
Pennsylvania	Fort Indiantown Gap	Ammunition Supply Point	1,350	C
Pennsylvania	Fort Indiantown Gap	Cold Storage Warehouse	5,000	C
Pennsylvania	Tobyhanna Army Depot	Satellite Systems Maintenance Facility	6,800	C
South Carolina	Fort Jackson	Automated Record Fire Range	1,600	C
Texas	Fort Hood	Modified Record Fire Range	1,650	C
Texas	Fort Hood	Range Control Facility	4,400	C
Texas	Fort Hood	Consolidated Maintenance Facility	22,700	C
Texas	Fort Hood	Range Modernization	3,050	C
Texas	Fort Hood	arracks Modernization	11,000	C
Texas	Fort Hood	Replace Vehicular Bridges	469	C
Texas	Fort Sam Houston	Physical Fitness Training Center	7,100	C
Texas	Fort Sam Houston	Medical Research Laboratory	13,400	C
Texas	Fort Sam Houston	Consolidated Maintenance Facility	13,200	C
Utah	Dugway Proving Ground	Simulant Mixing Facility	450	C
Utah	Tooele Army Depot	Ammunition Demilitarization Support Fac	11,800	N
US Various	Classified US Location	Classified Project	3,000	C
Virginia	Fort Belvoir	Fixed Wing Runway	1,400	C
Virginia	Fort Belvoir	Fire Station	1,100	C
Virginia	Fort Belvoir	Access Road - Fort Belvoir	3,000	C
Virginia	Fort Eustis	Harbor Control Facility	530	C
Virginia	Fort A P Hill	Fuel Storage Facility	3,200	C
Virginia	Fort Lee	Food Service Training Facility Addition	520	C
Virginia	Fort Myer	Child Development Center	2,150	C
Virginia	Fort Story	Emergency Services Building	1,600	C
Washington	Fort Lewis	Automated Record Fire Range	1,250	C
Washington	Fort Lewis	Tactical Support Center	5,100	C
Washington	Fort Lewis	Brigade Headquarters	8,800	C
Washington	Fort Lewis	Chapel Center	2,850	C
Wisconsin	Fort McCoy	Multi-Purpose Training Range	8,900	C
Wisconsin	Fort McCoy	Central Wash Facility	5,000	C
Wisconsin	Fort McCoy	Central Fuel Storage Facility	5,500	C
Wisconsin	Fort McCoy	Cold Storage Warehouse	5,000	C

FY 91 MCA Construction Projects

Outside The United States

State	Location	Project	Cost ($000)	New/ Current
Germany	Various Sites	Wartime Host Nation Support	2,500	C
Germany	Various Sites	Record Fire Ranges	4,053	C
Germany	Giessen	Tank Crew Combat Course	2,250	C
Germany	Heilbronn	Hardstand & Wash Facility	5,500	C
Germany	Kaiserslautern	Missile Maintenance Shop	5,000	N
Germany	Mannheim	Vehicle Maintenance Sheds	7,600	C
Germany	Grafenwoehr	Ready Building	3,500	C
Germany	Grafenwoehr	Pave Tank Trail	1,630	C
Germany	Grafenwoehr	Applied Instruction Facility	5,700	C
Germany	Hohenfels	Education Center Addition	610	C
Germany	Hohenfels	Library Addition	550	C
Germany	Hohenfels	Physical Fitness Training Center	3,350	C
Germany	Hohenfels	Military Police Station Addition	1,300	C
Germany	Hohenfels	Hardstand & Maintenance Sheds	4,350	C
Germany	Vilseck	Hardstand/Tactical Equipment Shop & Sheds	8,500	N
Germany	Vilseck	Fire Station	1,250	N
Germany	Vilseck	Chapel Center/Religious Education Fac	3,300	C
Germany	Vilseck	Multi-Purpose Auditorium Facility	2,550	C
Japan	Honshu	Ammunition Surveillance Facility	2,050	C
Japan	Honshu	Ammunition Storage	8,400	C
Korea	Eastern Corridor	Barracks	8,690	C
Korea	Eastern Corridor	Tactical Equipment Shop	8,500	C
Korea	Western Corridor	Tactical Equipment Shop	1,800	C
Korea	Yongsan	Flight Simulator Building	1,500	N
Korea	Various Sites	Ammunition Storage	11,000	C
Worldwide Various				
Worldwide Various	Minor Construction	Minor Construction Unspecified	7,603	
Worldwide Various	Planning and Design	Planning and Design	89,577	

Total Cost of New Mission projects	(14)	$	119,150
Total Cost of Current Mission projects	(89)	$	558,570
Total Cost of other line items	(2)	$	97,180
Total Cost of FY 91 MCA Projects	(105)	$	774,900

DEPARTMENT OF THE ARMY
MILITARY CONSTRUCTION (PART I) FY 1991

INSTALLATION LIST

INSTALLATION	MACOM	1390 PAGE
A		
Aberdeen Proving Ground	AMC	163
Anniston Army Depot	AMC	3
B		
Fort Belvoir	MDW	311
Fort Benning	TRADOC	87
Fort Bragg	FORSCOM	201
C		
Fort Campbell	FORSCOM	145
Carlisle Barracks	TRADOC	231
Fort Carson	FORSCOM	67
D		
Fort Detrick	HSC	173
Fort Drum	FORSCOM	191
Dugway Proving Ground	AMC	297
E		
Fort Eustis	TRADOC	321
F		
Falcon Air Force Base	USAF	79
G		
Germany Various	USAREUR	393

DEPARTMENT OF THE ARMY
MILITARY CONSTRUCTION (PART I) FY 1991

INSTALLATION LIST

INSTALLATION	MACOM	1390 PAGE
H		
Fort Benjamin Harrison	TRADOC	119
Fort A P Hill	FORSCOM	327
Fort Hood	FORSCOM	263
Fort Sam Houston	FORSCOM	283
Fort Huachuca	USAISC	37
I		
Fort Indiantown Gap	FORSCOM	239
Fort Irwin	FORSCOM	53
J		
Fort Jackson	TRADOC	255
Japan Various	USARJ	453
K		
Fort Knox	TRADOC	153
Korea Various	EUSA	463
L		
Fort Leavenworth	~~TRADOC~~	~~129~~
Fort Lee	TRADOC	333
Fort Lewis	FORSCOM	353
Classified US Location	USVAR	387
M		
Fort McCoy	FORSCOM	369
Minor Construction	MINEXG	489
Fort Myer	MDW	339

DEPARTMENT OF THE ARMY
MILITARY CONSTRUCTION (PART I) FY 1991

INSTALLATION LIST

INSTALLATION	MACOM	1390 PAGE
O		
Fort Ord	FORSCOM	59
P		
Pine Bluff Arsenal	AMC	45
Planning and Design	PLANDES	483
R		
Redstone Arsenal	AMC	13
Fort Riley	FORSCOM	135
Fort Rucker	TRADOC	19
S		
Schofield Barracks	WESTCOM	107
Fort Shafter	WESTCOM	113
Fort Sill	TRADOC	221
Fort Stewart	FORSCOM	99
Fort Story	TRADOC	345
T		
Tobyhanna Army Depot	AMC	247
Tooele Army Depot	AMC	303
W		
Fort Wainwright	WESTCOM	27
Fort Leonard Wood	TRADOC	181

DEPARTMENT OF THE ARMY
MILITARY CONSTRUCTION (PART I) FY 1991

COMMAND SUMMARY

MAJOR ARMY COMMAND NAME	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
INSIDE THE UNITED STATES		
Assistant Chief of Engineers	4,450	4,450
US Army Forces Command	252,277	252,277
US Army Health Services Command	530	530
US Army Information Systems Command	1,050	1,050
US Army Materiel Command	144,650	144,650
US Army Military District of Washington	7,650	7,650
US Army Training and Doctrine Command	144,580	144,580
US Army Western Command	17,100	17,100
OUTSIDE THE UNITED STATES		
Eighth United States Army	31,490	31,490
US Army Europe and Seventh Army	63,493	63,493
US Army Japan	10,450	10,450
WORLDWIDE		
Military Construction, Army-Minor	7,603	7,603
Planning and Design	89,577	89,577
TOTAL	$774,900	774,900

DEPARTMENT OF DEFENSE
MILITARY CONSTRUCTION, ARMY

The military construction program for the active Army in terms of budget plans shown in the schedules of this title are summarized in the following tabulation:

FISCAL YEAR	MILITARY CONSTRUCTION ARMY ($000) BUDGET PLAN
1988 (Actual)	1,283,501
1989 (Actual)	1,182,792
1990 (Actual)	815,929
1991 (Requested)	774,900

1. Major Construction. The MCA major construction program is one of the most visible means of improving the working and living conditions of the Army Family. This program provides for military construction projects in the United States and overseas as authorized in currently effective Military Construction Acts and in the new Authorization Request which will be presented to the Congress early in 1989.

This request balances the Army's most critical facilities needs within the fiscal constraints which place immediate operational needs of the Army ahead of its investment in new construction of facilities. The Army's facilities strategy is to: first, maximize use of present space; second, maintain what we own; third, address environmental concerns; fourth, contain maintenance and repair backlogs; then, revitalize substandard facilities; and, last, to provide new facilities when no other options exist.

2. Minor Construction. Provision is made for construction of future unspecified projects that have not been individually authorized by law but are determined to be urgent requirements and do not cost more than the amounts specified in 10 USC 2805.

3. Planning. This provides for necessary planning of military construction projects including design, standards, surveys, studies, and other related activities.

4. Supporting Activities. Provides for the Defense Access Road Program.

Department of Defense

Military Construction, Army

For acquisition, construction, installation, and equipment of temporary or permanent public works, military installations, facilities, and real property for the Army as currently authorized by law, and for construction and operation of facilities in support of the functions of the Commander-in-Chief, [$819,129,000] *$774,900,000* to become available for obligation on October 1, 1990 and to remain available for obligation until September 30, 1995: Provided, that of this amount, not to exceed [$79,420,000] *$89,577,000* shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefor.

Military Construction, Army
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-2050-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction	1,070,592	725,509	667,320	1,137,734	813,984	689,435
00.0201 Minor construction	16,200	11,000	7,603	17,056	14,692	7,943
00.0301 Planning	95,000	79,420	89,577	101,280	103,080	87,663
00.0401 Supporting activities	1,000		10,400	900	100	9,360
00.9101 Total direct program	1,182,792	815,929	774,900	1,256,970	931,856	794,401
01.0101 Reimbursable program	1,551,229	1,500,000	1,500,000	1,599,791	1,500,000	1,500,000
10.0001 Total	2,734,021	2,315,929	2,274,900	2,856,761	2,431,856	2,294,401
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)	-1,434,368	-1,120,000	-1,120,000	-1,402,153	-1,120,000	-1,120,000
13.0001 Trust funds(-)	-90,772	-380,000	-380,000	-86,806	-380,000	-380,000
14.0001 Non-Federal sources(-)	-26,089			-43,775		
17.0001 Recovery of prior year obligations				-95,017		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-533,026	-450,731	-334,804
21.4003 Available to finance new budget plans			-3,200			-3,200
21.4009 Reprograming from/to prior year budget pla	-36,078					
22.4001 Unobligated balance transferred to other acc	-30,702			-30,702		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				450,731	334,804	315,303
24.4003 Available to finance subsequent year budge		3,200			3,200	
25.0001 Unobligated balance lapsing	10,924			10,924		
39.0001 Budget authority	1,126,936	819,129	771,700	1,126,936	819,129	771,700
Budget authority:						
40.0001 Appropriation	927,292	819,129	774,900	927,292	819,129	774,900
41.0001 Transferred to other accounts(-)	-59,756			-59,756		
41.2201 Transferred to other accounts (unob bals)			-3,200			-3,200
42.0001 Transferred from other accounts	45,400			45,400		
43.0001 Appropriation (adjusted)	912,936	819,129	771,700	912,936	819,129	771,700
60.0002 Appropriation (permanent, definite)	214,000			214,000		

Military Construction, Army
Program and Financing (in Thousands of dollars) SUMMARY . 29 Jan 90

Identification code 21-2050-0-1-051	1989 actual	1990 est.	1991 est.
Relation of obligations to outlays:			
71.0001 Obligations incurred, net	1,324,027	931,856	794,401
72.4001 Obligated balance, start of year	1,117,842	1,153,357	938,613
74.4001 Obligated balance, end of year	-1,153,357	-938,613	-799,114
77.0001 Adjustments in expired accounts (net)	736		
78.0001 Adjustments in unexpired accounts	-95,017		
90.0001 Outlays	1,194,231	1,146,600	933,900

Military Construction, Army
Object Classification (in Thousands of dollars) SUMMARY

28 Jan 90

Identification code 21-2050-0-1-051

		1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Personnel compensation:			
111.101	Full-time permanent	65,360	82,594	86,045
111.301	Other than full-time permanent	430	15,355	15,996
111.501	Other personnel compensation	809	4,020	4,188
111.901	Total personnel compensation	66,599	101,969	106,229
112.101	Personnel Benefits: Civilian personnel	13,050	13,747	14,353
113.001	Benefits for former personnel		24	36
121.001	Travel and transportation of persons	4,451	3,932	3,040
122.001	Transportation of things	300	330	268
123.301	Communications, utilities, and miscellaneous changes	274	3,306	2,504
124.001	Printing and reproduction	400	804	805
	Other services:			
125.001	Payments to foreign national indirect hire personnel	7,024	8,572	8,929
125.003	Contracts	280,219	205,513	207,716
126.001	Supplies and materials	1,876	1,608	1,520
131.001	Equipment	1,336	3,038	2,504
132.001	Land and structures	880,541	588,913	437,137
199.001	Total Direct obligations	1,256,070	931,756	785,041
	Reimbursable obligations:			
	Personnel Compensation:			
211.101	Full-time permanent	178,648	134,762	140,391
211.301	Other than full-time permanent	2,090	25,053	26,100
211.501	Other personnel compensation	3,138	6,558	6,832
211.901	Total personnel compensation	183,876	166,373	173,323
212.101	Personnel Benefits: Civilian Personnel	27,905	22,619	23,617
213.001	Benefits for former personnel		49	73
221.001	Travel and transportation of persons	9,840	4,500	4,500
222.001	Transportation of things	587	300	300
223.301	Communications, utilities, and miscellaneous changes	32,763	3,900	3,900
224.001	Printing and reproduction	487	1,200	1,200
	Other services:			
225.001	Payments to foreign national indirect hire personnel	3,131		
225.004	Other	547,786	383,100	383,100
226.001	Supplies and materials	2,438	1,650	1,650
231.001	Equipment	25,465	3,600	3,600
232.001	Land and structures	765,513	912,709	904,737
299.001	Total Reimbursable obligations	1,599,791	1,500,000	1,500,000
	Allocation Accounts			
	Personnel compensation:			

Military Construction, Army
Object Classification (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-2050-0-1-051		1989 actual	1990 est.	1991 est.
311.101	Full-time permanent	17	2	181
311.501	Other personnel compensation	2		24
311.901	Total personnel compensation	19	2	205
312.101	Personnel benefits: Civilian personnel	3		24
321.001	Travel and transportation of persons	3	1	25
322.001	Transportation of things	1		11
	Other services:			
325.004	Other	14	2	142
326.001	Supplies and materials	2		17
331.001	Equipment	1		15
332.001	Land and structures	857	95	8,921
399.001	Total Allocation Accounts	900	100	9,360
999.901	Total obligations	2,856,761	2,431,856	2,294,401
	Obligations are distributed as follows:			
	Defense-Military:Army	2,855,861	2,547,800	2,277,638
	Department of Transportation	900	100	9,360
	Total Obligations	2,856,761	2,547,900	2,286,998

Special Program Considerations

SECTION I

ITEMS OF SPECIAL INTEREST

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

Floodplain Management and Wetlands Protection

Proposed land acquisitions, disposal, and installation construction projects have been planned to allow the proper management of floodplains and the protection of wetlands by avoiding long and short-term adverse impacts, reducing the risk of flood losses and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11990.

Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 90-480, provisions for physically handicapped personnel are provided for, where appropriate, in the design of facilities included in this program.

Preservation of Historical Sites and Structures

Facilities included in the program do not directly or indirectly affect a district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on the DD Form 1391.

Planning in the National Capital Region

Projects located in the National Capital Region are submitted to the National Capital Planning Commission for budgetary review and comment as part of the Commission's annual review of the Five-Year Defense Program (FYDP). Construction projects within the District of Columbia, with the exception of the Bolling/Anacostia area, are submitted to the Commission for approval prior to the start of construction.

Environmental Protection

In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources. Where alternatives can be evaluated, a primary economic analysis was prepared and the results indicated on the DD Form 1391.

Turnkey Selection Procedures

The following projects are being considered for one-step turnkey contracting rather than by use of conventional contracting methods:

FY91	Fort McCoy, Wisconsin	Cold Storage Warehouse
FY91	Fort Benning, Georgia	Recreation Center

Turnkey contracting will be in accordance with 10 United States Code, Section 2862 as revised by the fiscal year 1990 legislative language proposal. Other candidates may be identified as design analysis progresses.

Packaging of Construction Contracts

House Appropriations Committee Report, No. 100-602, Military Construction Appropriation Bill, 1989, directs the Department to continue to pursue alternate construction methods, including contract packaging. Contract packaging that may be advantageous will be identified separately prior to advertisement in accordance with existing notification practices.

Modular Construction

House Appropriations Committee Report, No. 101-176, Military Construction Appropriation Bill, 1989, pages 9 and 10, directs the Services to review their fiscal year 1990 military construction program and select at least two child care projects per Service to be accomplished using modular construction, either exclusively or competitive bid. The Army has selected two such projects to permit modular construction to compete competitively in the bidding process.

FY91	Fort Myer, Virginia	Child Development Center
FY91	Fort Stewart, Georgia	Child Development Center

Concrete Technology

The House Armed Services Committee Report #101-121, page 338, recommended that the Secretary of Defense undertake an investigation of new concrete technologies and further recommended that services include three demonstration projects in their fiscal year 1991 budget requests. Currently, there are no generic specifications, approved design procedures, or construction procedures for high performance blended hydraulic cement. Therefore, any selection of demonstration projects will be delayed until after an investigation is complete and the concrete is validated such that cost effective and safe, long term use in critical designs can be established.

Alternative Funding Sources for Overseas Projects

Conference Report No. 100-498, Making Further Continuing Appropriations For The Fiscal Year Ending September 30, 1988, pg. 1003 directs that future budget requests include an eligibility certificate for each project requested in Europe, Japan, and Korea. Each overseas project presented in this request has been considered for funding by either NATO Infrastructure (Europe), Facilities Improvement Program (Japan), or Combined Defense Improvement Projects (Korea). The Additional paragraph of each overseas DD Form 1391 includes the certification as to Alternative Funding eligibility.

Special Operations Forces (SOF) Projects

The Army transferred $4.8M to SOCOM to build two Fiscal Year 1991 projects:

Fort Stewart, GA	Special Operations Headquarters	$1,800,000
Fort Stewart, GA	Tactical Equipment Shop	3,000,000
		4,800,000

Both projects are located on Hunter Army Airfield at Fort Stewart to support the Special Operations Aviation Battalion. $1.3 million of Fiscal Year 1991 planning and design money was also transferred. Therefore no SOCOM projects appear in the Army's MILCON request. Additional funds were transferred to SOCOM in the outyears to design and construct those Army projects considered in support of SOCOM.

Chemical Weapons Disposal

House Appropriations Committee Report, No. 101-176, Military Construction Appropriation Bill, 1989, page 15 directs the Army to proceed with exploration of the cryofracture concept prior to future requests for construction of demilitarization facilities. Public Law 101-165, the Department of Defense Appropriations Act, 1990, directs that $16.3 million of Fiscal Year 1989 Chemical Agents and Munitions Destruction, Defense funds be obligated for the cryofracture program, and appropriates another $6.1 million for this effort. A letter contract was awarded in January 1990 to General Atomics for the cryofracture effort. A final negotiated contract is scheduled for award in April 1990.

The Fiscal Year 90/91 Biennial budget contained projects in Fiscal Year 1991 to construct Chemical Demilitarization Facilities at Anniston Army Depot, Alabama; Pine Bluff Arsenal, Arkansas; and Umatilla Depot Activity, Oregon. The Fiscal Year 1991 Budget contains two projects for Anniston Army Depot, Alabama, and one project for Tooele Army Depot:

Anniston Army Depot, Alabama	
Ammunition Demilitarization Facility	$54,300,000
Ammunition Demil Maintenance Facility	10,200,000
Tooele Army Depot, Utah	
Ammunition Demilitarization Support Fac	11,800,000

Projects for facilities to be constructed at Pine Bluff Arsenal and Umatilla Depot Activity will be included in the next Biennial Budget.

Land Acquisition Requirements

Conference Report number 101-331, Fiscal Year 1990 DoD Authorization Bill, page 678, directs that each military service is to highlight any land acquisition requirements included in construction projects in the President's Budget. None of the Army's construction projects include a cost for land acquisition.

Installations are presently developing requirements for additional land which will be reviewed by their respective Major Commands before being submitted for prioritization by Headquarters, Army. This review includes all Army land requirements together and will insure that acquisition is justified in light of cost, need, availability, constraints, and alternative function considerations. Final approval by the Assistant Secretary of the Army (Installations, Logistics, and Environment) is expected during the Spring of 1990.

Religious Facilities

The Military Appropriations Conference Report No. 101-307, page 8, fully funded three projects for combined child development centers/religious education facilities. These projects were recommended for full scope, subject to authorization, in order to make the most economical and effective use of these facilities. The House Appropriations Committee Report No. 101-176, page 9, expected that chapels and religious facilities be included in the Fiscal Year 1991 Budget Request for locations where there is a major deficiency. The following projects are included in the Fiscal Year 1991 Budget Request for additional authorization which was not provided in the fiscal year 1990 legislation:

Project	FY 1990 Appropriation	FY 1990 Authorization	Additional Requested FY 1991 Authorization
Fort Leavenworth, Kansas Religious Education Fac Child Development Center	$5,500,000	$3,000,000	$2,500,000
Fort Detrick, Maryland Chapel Center Child Development Center	2,300,000	1,300,000	1,000,000
Fort Sill, Oklahoma Religious Education Fac Child Development	4,85,000	2,700,000	2,150,000

DD Form 1391 Justification forms for these three projects are included herein.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Leavenworth, Kansas	4. PROJECT TITLE Child Development/Religious Education Fac

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 9578	8. PROJECT COST ($000) Auth 5,500 Approp 0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				4,414
Child Development Center	SF	23,660	91.20	(2,158)
Army Education Center	SF	17,650	89.00	(1,571)
Religious Education Center	SF	5,383	89.00	(479)
Information Systems	LS	-	-	(70)
Playground w/Equipment	LS	-	-	(125)
Outdoor Storage Sheds	SF	384	28.00	(11)
Supporting Facilities				525
Electric Service	LS	-	-	(62)
Water, Sewer & Gas	LS	-	-	(48)
Paving, Walks, Curbs & Gutters	LS	-	-	(65)
Storm Drainage	LS	-	-	(27)
Site Improvement (203) Demolition (77)	LS	-	-	(280)
Information Systems	LS	-	-	(43)
Subtotal				4,939
Contingency (5.00%)				247
Total Contract Cost				5,186
Supervision, Inspection & Overhead (5.50%)				285
Total Request				5,471
Total Request (Rounded)				5,500
Installed Equipment - Other Appropriations				(52)

10. Description of Proposed Construction Construct a joint-use facility for the Child Development Center, Army Education Center, Religious Education Center, and Family Life Counseling Center. Project will include separate administrative space for each activity, multi-purpose rooms with folding partitions to be shared by all activities, meal preparation area, staff workroom, isolation room, and playground with outdoor storage for the Child Development Center. Supporting facilities include utilities, communications, fire protection, paving, walks, curbs and gutters, storm drainage; and site improvements. Heating and air conditioning (187 tons) will be provided by a self-contained system. Access for the handicapped will be provided. Demolish three buildings (19,794 SF).

11. REQUIREMENT: 61,125 SF ADEQUATE: 14,432 SF SUBSTANDARD: 32,289 SF

PROJECT: Construct a combined Child Development Center, Army Education Center, Religious Education Center, and Family Life Counseling Center. (Current Mission)

REQUIREMENT: This project is required to provide an adequate, consolidated facility for child development services for 303 children at one time and up to 500 children total per day; Army Continuing Education services for an enrollment of 941 a year, testing of 525 a year, and 10,100 military

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Leavenworth, Kansas

4. PROJECT TITLE Child Development/Religious Education Fac	5. PROJECT NUMBER 9578

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
occupation specialty (MOS) library visits a year; and religious education classes for approximately 370 adults and 1,160 children per week.

CURRENT SITUATION: These activities use inadequate facilities that have been borrowed from other organizations for use during off hours. The 1945-vintage building being used for the Child Development Center (CDC) does not have adequate fire and tornado protection, does not meet all Life Safety Code requirements for child care centers, and cannot accommodate enough children. Over 200 children are turned away daily because of insufficient space to meet the increasing demand for child care. The Army Continuing Education System (ACES) program mission is to provide an integrated system of on-duty career and off-duty self-development educational opportunities to directly support training requirements and professional development. Presently, these services are separated in two buildings: a blacksmith shop built in 1888 and an indoor swimming pool built in 1890. In the former blacksmith shop the classrooms lack acoustic control, do not allow all students full view of the chalkboard, and prohibit access from a main corridor. Additionally, the Army/American Council on Education Registry Transcript System (AARTS), an assigned mission of the Fort Leavenworth ACES program, became operational in 1983 and has taken up precious classroom space for the necessary administrative functions. The classrooms utilized by the Family Life Center and the Religious Education program can accommodate only 15 people. The religious education program currently conducts triple sessions; but even at this maximum scheduling level, there are over 250 young people who cannot participate.

IMPACT IF NOT PROVIDED: If this project is not provided, child care will continue to be conducted in a substandard building that does not meet all life safety requirements, does not provide adequate fire or tornado protection, and is too small, thus denying care for up to 200 children daily. The Army Education Center will be unable to conduct the necessary classes to provide for on-duty career and off-duty self-development educational opportunities to directly support training requirements and professional development. The Religious Education program and the Family Life Center will be restricted to limited programs. They will be unable to accommodate the current population and will operate their programs and classes at densities that violate the rules of health and safety.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 13 March 1987.

12. SUPPLEMENTAL DATA:

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Leavenworth, Kansas		
4.PROJECT TITLE Child Development/Religious Education Fac		5.PROJECT NUMBER 9578

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data:

(1) Status:

(a)	Design Start Date	Sep 87
(b)	Percent Complete As Of 01 January 89 (BDGT YR)	35
(c)	Percent Complete As Of 01 October 89 (PROG YR)	100
(d)	Design Complete Date	Sep 89

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Initial Use

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	
(b)	All Other Design Costs	356
(c)	Total Cost	356
(d)	Contract	0
(e)	In-house	356

(4) Construction Start .... Feb 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Systems	OPA	90	52
		TOTAL	52

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Detrick, Maryland	4. PROJECT TITLE Chapel Center/Child Development Center

5. PROGRAM ELEMENT 87796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 14273	8. PROJECT COST ($000) Auth 2,300 Approp 0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,874
Child Development Center	SF	9,520	99.16	(944)
Religious Education Center	SF	3,855	73.15	(282)
Post Chapel	SF	6,500	99.08	(644)
Information Systems	LS	-	-	(4)
Supporting Facilities				211
Electric Service	LS	-	-	(36)
Water, Sewer & Gas	LS	-	-	(13)
Paving, Walks, Curbs & Gutters	LS	-	-	(74)
Storm Drainage	LS	-	-	(17)
Site Improvement (24) Demolition (38)	LS	-	-	(62)
Information Systems	LS	-	-	(9)
Subtotal				2,085
Contingency (5.00%)				104
Total Contract Cost				2,189
Supervision, Inspection & Overhead (5.50%)				120
Total Request				2,309
Total Request (Rounded)				2,300
Installed Equipment - Other Appropriations				(39)

10. Description of Proposed Construction Construct a 122-child development center, chapel and religious education facility (REF) to contribute favorably to the growth and development of children and Army families while under the Army's care. The standard-design child development center will include: one administrative, one toddler, one preschool, and one composite module. Co-locate with a 200-seat chapel and religious education facility with meeting rooms, classrooms, and counseling space. Heat will be provided by a self-contained, gas-fired system. Supporting facilities include utilities, paving, fire protection, alarm and sprinkler systems, intercom, entrance driveway, walks, curbs and gutters, parking, exterior lighting and site improvements. Demolish four buildings (14,978 SF). Air conditioning: 70 tons.

11. REQUIREMENT: 19,875 SF ADEQUATE: None SUBSTANDARD: 12,429 SF

PROJECT: Construct a joint use 122-child development center with playground and storage sheds co-located with a 200-seat chapel and religious education facility (REF). (Current Mission)

REQUIREMENT: This project is required to provide child development activities, sleeping, and dining functions; Army family and single soldier counseling, social activities, and religious education. The child development center will have a capacity of 122 children. The chapel will have 200 seats.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Detrick, Maryland

4.PROJECT TITLE Chapel Center/Child Development Center	5.PROJECT NUMBER 14273

11. REQUIREMENT: (Continued)

CURRENT SITUATION: The 955-person military community has a documented need for 477 spaces for children requiring daytime care. Currently child and infant care is being offered in two buildings with a combined capacity of 74. Child development activities cannot meet projected demand or provide hourly child care within existing World War II temporary wood frame buildings with serious fire, safety, and health deficiencies. The existing buildings are located within the installation's central industrial zone adjacent to pesticide storage, central boiler plant and oil storage, maintenance shops and warehousing. A constant heavy flow of trucks (oil tankers and 18 wheelers) must pass along the main road separating these two buildings with no building set-back provided, or drop-off area available. The buildings were not designed for their present use, are not functionally appropriate, and are not energy efficient. An interim waiver has been requested for existing deficiencies pending new construction. The Post Chapel is an old, coal-fired steam engine shed modified for chapel use. It is too small to accommodate the present congregation and does not include toilets or office space. The religious education facility is located in another World War II wooden structure that formerly had been an open bay barracks before it was relocated to its present location. It is not equipped with counseling rooms, adequate classrooms, storage space, or meeting rooms.

IMPACT IF NOT PROVIDED: If this project is not provided, children currently attending the child development center will not have adequate child care that meets minimum fire, health and safety standards; while family and soldier counseling, morale and psychological support, social activities, religious education, and group meeting activities will either continue to be unavailable or be only partially available in inadequate, energy inefficient, buildings. The child development and infant care facilities will continue to be subjected to industrial traffic, odors, and noise from its location within the installation's central industrial zone.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 13 March 1987.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Aug 86

(b) Percent Complete As Of 01 January 89 (BDGT YR)...... 70

(c) Percent Complete As Of 01 October 89 (PROG YR)...... 100

(d) Design Complete Date .... Jul 89

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Detrick, Maryland		
4.PROJECT TITLE Chapel Center/Child Development Center		5.PROJECT NUMBER 14273

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Design Guide

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a)	Production of Plans and Specifications	111
(b)	All Other Design Costs	55
(c)	Total Cost	166
(d)	Contract	131
(e)	In-house	35

(4) Construction Start .... Jan 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Sound System	MEDCASE	90	5
Information Systems	OPA	90	34
		TOTAL	39

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sill, Oklahoma		4. PROJECT TITLE Child Development/Religious Education Fac	
5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 3268	8. PROJECT COST ($000) Auth 4,850 Approp 0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,863
Child Development Center	SF	23,660	80.01	(1,893)
Multi-purpose Chapel Center	SF	19,657	92.94	(1,827)
Playground w/Equipment	SF	30,300	3.80	(115)
Outdoor Storage Sheds	SF	455	24.18	(11)
Information System	LS	-	-	(17)
Supporting Facilities				517
Electric Service	LS	-	-	(87)
Water, Sewer & Gas	LS	-	-	(55)
Paving, Walks, Curbs & Gutters	LS	-	-	(111)
Storm Drainage	LS	-	-	(12)
Site Improvement (80) Demolition (15)	LS	-	-	(95)
Information Systems	LS	-	-	(24)
Ballfield Relocation	LS	-	-	(133)
Subtotal				4,380
Contingency (5.00%)				219
Total Contract Cost				4,599
Supervision, Inspection & Overhead (5.50%)				253
Total Request				4,852
Total Request (Rounded)				4,850
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a multipurpose child development, religious education and chapel facility. Project will include fencing, playground structures, parking and drives, utilities, communications, fire protection and alarm systems. Heat and air conditioning (174 tons) will be provided by a self-contained natural gas system. Access for the handicapped will be provided. Project includes relocation of an existing ballfield with lighting which is currently on the proposed site. Demolish two buildings (20,125).

11. REQUIREMENT: 167,289 SF ADEQUATE: 48,934 SF SUBSTANDARD: 21,425 SF

PROJECT: Construct a combined child development center for 303 children, 300-seat chapel, and religious education facility (REF). (Current Mission)

REQUIREMENT: This project is required to provide adequate facilities to conduct religious services, religious education, ard provide child care services for 303 children to alleviate hardships for working military families.

CURRENT SITUATION: The Chapel/Religious Education Program is currently conducted out of unit chapels, two diverted administration buildings and one diverted temporary unaccompanied officer quarters. The placement of chapels in unit areas meets the need of the single soldier, but there is no single

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4.PROJECT TITLE Child Development/Religious Education Fac		5.PROJECT NUMBER 3268

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
facility with a religious education facility to meet the needs of the family. The religious education facility is mainly housed in Building 2755 which is one mile from the nearest Catholic chapel, and two and one half miles from the nearest Protestant chapel. The capacity of the religious education facility is 160 and that is currently being exceeded. Building 2755 does not meet current health and safety standards and cannot be adequately modified since it is World War II construction and such work would not be cost effective. The nursery facilities in the two chapels do not meet health standards and one is now being closed, compounding the problem. The Child Care Program is conducted in two locations approximately three miles apart. One half of the program is housed in two buildings (totaling 11,907 SF) with a capacity for 110 children. Recent efforts to upgrade these facilities have only provided minimum health and safety standards and the buildings cannot be adequately modified since they are on the National Register of Historic Places. The other half is located in two other buildings (totaling 20,095 SF), and will accommodate 100 children. These structures are converted World War II mobilization hospital wings and are substandard facilities.
IMPACT IF NOT PROVIDED: If this project is not provided, service members and their families will continue to be denied adequate child development and religious education services. Violations of health and safety standards will continue since only substandard facilities are available. The waiver in effect for child development programs at Building 5225 (because the playground does not meet standards) will continue. Finally, the large number of work orders which are continously submitted for correction of safety hazards in these very old and inadequate facilities will continue. The impact of inadequate religious education facilities is already occurring as soldiers and their families are reluctant to attend programs in the outdated, overcrowded, inefficient building. Religious education classes that meet the needs of the various chapel communities cannot be provided without new facilities.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 13 March 1987.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Jul 85
(b) Percent Complete As Of 01 January 89 (BDGT YR)	45
(c) Percent Complete As Of 01 October 89 (PROG YR)	100
(d) Design Complete Date	Aug 89

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4.PROJECT TITLE Child Development/Religious Education Fac		5.PROJECT NUMBER 3268

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used ______

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	264
(b) All Other Design Costs	102
(c) Total Cost	366
(d) Contract	273
(e) In-house	93

(4) Construction Start .... Jan 90 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

Child Development Centers, Base Deficiencies

In the 1990 Military Construction Report, 101-121, the House Armed Services Committee directed the Services to assess the deficiency in child care space by installation and to report specific plans for constructing child care centers over the succeeding five years. The tables included with this narrative provide that assessment and plan for the Army.

The Army determined its total need for child care using installation troop strengths and Army-wide demographics. Approximately 50 percent of all soldiers are married, and approximately 20 percent of married soldiers require child care services. We included an additional five percent to accommodate sole parents and dual military couples. We supported and validated the calculated need with installation waiting lists.

The formula accurately reflects total child care demand in most instances. However, it does not completely capture demand at those installations which serve members of other services or have unique work force opportunities or constraints, nor does it reflect demand for child care by the Army's civilian work force. In the former instances current capacity, utilization, and waiting lists become overriding factors. Civilian work force child care data is currently being collected to provide the April 1990 report required by the Military Child Care Act.

This report identifies the Army's demand for child care for soldiers' children in child development centers versus the Army's total requirement for child care service. The Army also provides extensive child care services in government housing under the auspices of the Family Child Care Program, as well as child care in other settings such as recreation centers, youth centers, and care for school aged children in schools. Further, the Army provides information and referral services to off post centers when available and cooperates in joint initiatives with public and private sector programs.

The Army expects that approximately 40 percent of children needing care can be served by child development centers, 35 percent by family child care homes, and the remaining 25 percent by Supplemental Programs and Services. Providing that mix of services to the current force will require constructing 19,900 new spaces in child development centers. Reductions in the size of the force will lower the demand for new spaces. At this time we do not know specific locations where reductions might occur.

While the Army has successfully supported child development center construction in the past, the outlook for FY91 and beyond is not promising. Between FY82 and FY90 the Army funded 108 centers through Military Construction, Army (MCA), or Unspecified Minor Military Construction, Army (UMMCA), an average of 14 to 18 centers each year. In FY91 we are requesting three centers. The tentative five year plan included with this document anticipates constructing six centers each year, which would reduce the center deficit of 19,900 spaces by 2,215 leaving a requirements deficit of 17,685 spaces.

Budget constraints are forcing the Army leadership to make difficult decisions, especially in construction. Through construction the Army has replaced many centers identified as deficient by the General Accounting Office in their early 1980's assessment. Most of that replacement has occurred at installations with large soldier populations in the United States. We have not been as successful in replacing deficient centers overseas or at the predominantly civilian staffed installations of the Army Materiel Command. Construction of facilities to expand services has been limited.

Since appropriated fund construction is limited the Army must look to other sources to provide additional child development center spaces. Elsewhere in this budget document is notification that the Army is exploring use of third parties to provide child care services.

The HASC, in report 101-121, notes that the Services have not used nonappropriated funds to construct child development centers. In FY89 and FY90 we requested use of nonappropriated funds to provide interim modular facilities when life safety deficiencies demanded centers be immediately closed. By letter dated May 24, 1989, the Morale, Welfare and Recreation Panel of the House Armed Services Committee (HASC) approved use of "soldier dollars" for these four facilities and directed DoD to use appropriated funds in the future. The Army has not forwarded an additional request for an interim facility because of the Panel's guidance.

REQUIREMENTS SUMMARY

40 PERCENT OF DEFICIENCY MET BY CENTER CONSTRUCTION

35 PERCENT OF DEFICIENCY MET BY FAMILY CHILD CARE PROGRAM

25 PERCENT OF DEFICIENCY MET BY SUPPLEMENTAL PROGRAMS AND SERVICES OPTIONS

CENTER REQUIREMENTS SUMMARY

40 PERCENT OF TOTAL UNMET DEMAND

19,900 SPACES

100 CENTERS (AVERAGE CAPACITY 200)

CONSTRUCT 15 - 20 CENTERS PER YEAR OVER THE FIVE YEAR PERIOD

MCA/UMMCA CONSTRUCTION SUMMARY

FY82 - FY90 -- 108 CENTERS CONSTRUCTED
TYPICALLY PROGRAMMED 15 PER YEAR

FY91 -- 5 CENTERS PROGRAMMED

FIVE YEAR PLAN -- 6 CENTERS PROGRAMMED PER YEAR

NAF CONSTRUCTION SUMMARY

FY80- FY82 -- 5 CENTERS CONSTRUCTED

FY84 - FY88 -- 0 CENTERS CONSTRUCTED

FY89 - FY90 -- 4 CENTERS CONSTRUCTED

ADDITIONAL REQUESTS PENDING DEFINITIVE CONGRESSIONAL GUIDANCE ON THE USE OF NONAPPROPRIATED FUNDS.

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS
AND CONSTRUCTION PLAN
UNITED STATES & PUERTO RICO

			SPACES			
INSTALLATION	CAPACITY	REQUIRED	DEFICIT	UNDER CONST	FY91 PRGM	TENTATIVE
ALASKA						
FORT GREELY	NO DEFICIT					
FORT RICHARDSON	NO DEFICIT					
FORT WAINWRIGHT	551	594	43			
ALABAMA						
FORT McCLELLAN	470	857	387			
FORT RUCKER	468	959	491	R 303		
REDSTONE ARSENAL	443	507	64			
ARKANSAS						
PINE BLUFF ARSENAL	NO DEFICIT					
ARIZONA						
FORT HUACHUCA	NO DEFICIT					
YUMA PROVING GDS	NO DEFICIT					
CALIFORNIA						
FORT IRWIN	585	NO DEFICIT				R 198
FORT ORD	934	2450	1516	R 606		
OAKLAND ARMY BASE	87	95	8	R/E 60		
PRESIDIO, MONTEREY	272	392	120			
PRESIDIO, SF	376	432	56			
SHARPE ARMY DEPOT	NO DEFICIT					
SIERRA ARMY DEPOT	NO DEFICIT					

NOTE: "R" preceding an entry indicates the project replaces an inadequate/unsafe center, "E" indicates expanded capacity. Deficits do not include civilian work force child care needs.

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS
AND CONSTRUCTION PLAN

INSTALLATION	CAPA-CITY	REQU-IRED	DEF-ICIT	SPACES	FY91 PRGM	TENT-ATIVE
				UNDER CONST		
COLORADO						
FITZSIMMONS AMC	235	272	37	R/E 244		
FORT CARSON	1252	2516	1264			
PUEBLO ARMY DEPOT	NO DEFICIT					
DISTRICT OF COLUMBIA						
WALTER REED AMC	127	401	274	R/E 122		
GEORGIA						
FORT BENNING	897	3310	2413	R/E 297		
FORT GORDON	796	1760	964			
FORT STEWART	691	2110	1419			
HUNTER AIRFIELD	250	530	280		R 198	
FORT McPHERSON	116	320	204			R/E 304
HAWAII						
ALL LOCATIONS	1480	2686	1206	R 233		E 804
ILLINOIS						
FORT SHERIDAN	243	257	14			
PRICE SP'T CENTER	136	NO DEFICIT				R 99
ROCK ISLAND ARSNL	152	NO DEFICIT		R 75		
INDIANA						
FORT BEN HARRISON	269	438	169			R/E 425
KANSAS						
FORT LEAVENWORTH	601	NO DEFICIT		R 303		
FORT RILEY	560	2382	1822	R/E488		

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS AND CONSTRUCTION PLAN

INSTALLATION	CAPACITY	REQUIRED	SPACES DEFICIT	UNDER CONST	FY91 PRGM	TENTATIVE
KENTUCKY						
FORT CAMPBELL	1140	3129	1989	R/E606		
FORT KNOX	1096	2465	1369			
LOUISIANA						
FORT POLK	943	2222	1279			
MASSACHUSETTS						
FORT DEVENS	NO DEFICIT					
MARYLAND						
ABERDEEN PVG GDS	829	NO DEFICIT				R 198
FORT DETRICK	119	130	11	R/E122		
FORT MEADE	1130	NO DEFICIT		R 606		
FORT RITCHIE	183	NO DEFICIT		E 51		
MICHIGAN						
TACOMSA-SELFRIDGE	NO DEFICIT					
MISSOURI						
FORT LEONARD WOOD	630	1757	1127			
NEW HAMPSHIRE						
CRREL	0	NO DEFICIT		E 48		
NEW JERSEY						
FORT DIX	796	1471	675			R 303
FORT MONMOUTH	561	NO DEFICIT				R 244
MIL TERM BAYONNE	NO DEFICIT					
PICATINNY ARSENAL	NO DEFICIT					

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS
AND AND CONSTRUCTION PLAN

				SPACES		
INSTALLATION	CAPA-CITY	REQU-IRED	DEF-ICIT	UNDER CONST	FY91 PRGM	TENT-ATIVE
NEW MEXICO						
WHITE SANDS MR	332	NO DEFICIT				R 99
NEW YORK						
FORT DRUM	405	1529	1124			
FORT HAMILTON	NO DEFICIT					
FORT TOTTEN	NO DEFICIT					
SENECA DEPOT	NO DEFICIT					
WEST POINT	NO DEFICIT					
NORTH CAROLINA						
FORT BRAGG	903	4060	3157	E 476		
OKLAHOMA						
FORT SILL	406	2514	2108	R 303		
McALISTER AAP	25	SEE NOTE				R/E 60
PENNSYLVANIA						
CARLISLE BARRACKS	120	NO DEFICIT			R 99	
LETTERKENNY DEPOT	27	SEE NOTE				R/E 99
NEW CUMBRLND DEPOT	NO DEFICIT					
TOBYHANNA DEPOT	NO DEFICIT					
PUERTO RICO						
FORT BUCHANAN	151	SEE NOTE				R/E 198

NOTE: Formula not used due to unique work force circumstances.

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS
AND CONSTRUCTION PLAN

INSTALLATION	CAPACITY	REQUIRED	SPACES DEFICIT	UNDER CONST	FY91 PRGM	TENTATIVE
SOUTH CAROLINA						
FORT JACKSON	656	1850	1194			
TEXAS						
FORT BLISS	804	2116	1362			
FORT HOOD	1759	5753	3994	R/E 303		E 303
FORT SAM HOUSTON	538	1451	913	R 303		
RED RIVER DEPOT	NO DEFICIT					
UTAH						
DUGWAY PROVING GDS	173	NO DEFICIT		R/E 145		
VIRGINIA						
FORT BELVOIR	484	1796	1312	R/E 541		
FORT EUSTIS	504	1093	589			R 303
FORT LEE	295	914	619	R/E 198		
FORT MONROE	180	NO DEFICIT		R/E 99		
FORT MYER	84	999	915		E 145	
FORT STORY	81	174	93			R 60
VINT HILL FARMS	124	SEE NOTE				R/E 145
WASHINGTON						
FORT LEWIS	1716	3156	1440			
WISCONSIN						
FORT McCOY	NO DEFICIT					

NOTE: Formula not used due to unique work force circumstances

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS AND CONSTRUCTION PLAN
OVERSEAS

INSTALLATION	CAPACITY	REQUIRED	DEFICIT	SPACES UNDER CONST	FY91 PRGM	TENTATIVE
		EUROPE				
NETHERLANDS						
AFCENT	85	122	37			
BELGIUM						
NATO HQ	124	151	27			
GREAT BRITAIN						
BURTONWOOD	NO DEFICIT					
GERMANY						
AMBERG	64	126	62			R 99
ANSBACH	748	899	151	R 198		
ASCHAFFENBURG	530	681	151			
AUGSBURG	576	918	342			R 303
BAD KREUZNACH	403	560	157			
BAD TOELZ	NO DEFICIT					
BAMBERG	268	989	721			R 303
BAUMHOLDER	569	993	424			
BERLIN	420	767	347			
BINDLACH	116	150	34			
BREMERHAVEN	379	718	339			
DARMSTADT	792	932	140			R 145
FRANKFURT	1211	1244	33			R 99

DEPARTMENT OF THE ARMY
CHILD DEVELOPMENT REQUIREMENTS
AND CONSTRUCTION PLAN

		SPACES				
INSTALLATION	CAPA-CITY	REQU-IRED	DEF-ICIT	UNDER CONST	FY91 PRGM	TENT-ATIVE
GERMANY						
FULDA	219	576	357			
GIESSEN	839	1679	840	R 198		
GOEPPENGEN	511	674	163			
GRAFENWOEHR	195	257	62	R/E 145		
HANAU	1167	1828	661			R 145
HEIDELBERG	NO DEFICIT					
HEILBRONN	443	654	165			R 198
HOHENFELS	65	NO DEFICIT		R/E 122		
KAISERSLAUTERN	165	767	602			
KARLSRUHE	471	642	171	R/E 304		
MAINZ	355	1062	707			
MANNHEIM	583	1428	845			E 303
MUNICH	NO DEFICIT					
NEU ULM	328	569	241			
NUERENBERG	849	2234	1385			
PIRMASENS	341	448	107			
RHEINBERG	25	NO DEFICIT		R/E 99		
SCHWEINFURT	452	1017	565			
STUTTGART	1495	2094	599	R/E 448		R 303
VILSECK	NO DEFICIT					
WIESBADEN	608	NO DEFICIT		R 198		

DEPARTMENT OF THE ARMY CHILD DEVELOPMENT REQUIREMENTS AND CONSTRUCTION PLAN

				SPACES		
INSTALLATION	CAPA-CITY	REQU-IRED	DEF-ICIT	UNDER CONST	FY91 PRGM	TENT-ATIVE
GERMANY						
WILDFLECKEN	160	299	139			
WORMS	194	224	30	R 122		
WUERZBERG	1002	2079	1077			
ZWEIBRUCKEN	334	NO DEFICIT				
ITALY						
LIVORNO	107	150	43	R/E 122		
VINCENZA	194	255	61	R/E 145		
		ASIA				
JAPAN						
MAIN ISLANDS	358	NO DEFICIT		R 99		
OKINAWA	0	NO DEFICIT		E 99		
KOREA						
ALL LOCATIONS	499	1090	591	R 122		
		CENTRAL AMERICA				
PANAMA						
ALL LOCATIONS	585	SEE NOTE				
		MICRONESIA				
KWAJALEIN	50	SEE NOTE				R/E 145

NOTE: Formula not used due to unique work force circumstances.

SECTION II

CONSTRUCTION FUNDED IN OTHER THAN MILITARY CONSTRUCTION

Appropriated Funds

Conference Report No. 100-498, Making Further Continuing Appropriations For The Fiscal Year Ending September 30, 1988 directed that an information exhibit be included in each budget request indicating construction to be accomplished with funds other than family housing and military construction. A listing is attached at the end of this section which includes:

Procurement
Research, Development, Testing and Evaluation (RDTE)
Operation and Maintenance, Army (OMA)
Operation and Maintenance, Army Reserve (OMAR)

Long Term Facilities Contracts (Section 2809)

Conference Report No. 101-307, page 5, Military Construction Appropriations for Fiscal Year 1990, directs that all Third Party projects financed through the Operation and Maintenance Account be listed separately with construction funded in other than Military Construction. The Army is considering four Child Development Centers as candidates for long-term third party contracts. These projects are still under investigation to determine whether these facilities can be provided more economically by long-term contract versus MCA. DD Forms 1391 are provided following these summary descriptions:

SUMMARY DESCRIPTIONS:

TYPE/TITLE: Child Development Center

LOCATION: Fort Belvoir, VA

DESCRIPTION: This project is for the construction and operation of a child development center with a capacity for 303 children. The project includes site improvement and supporting facilities. The project will provide child development services to families of active military and DOD civilians of on-post and nearby off-post DOD activities.

ESTIMATED MCA COST: $3,150,000

TYPE/TITLE: Child Development Center

LOCATION: Detroit Arsenal, MI

DESCRIPTION: This project is for the construction and operation of a child development center with a capacity for 145 children and includes site improvement and supporting facilities. The project will provide child development services to dependent children of military personnel, civilian employees and contractor personnel of on-post activities.

ESTIMATED MCA COST: $1,500,000

- -

TYPE/TITLE: Child Development Center

LOCATION: Redstone Arsenal, AL

DESCRIPTION: This project is for the construction and operation of a child development center with a capacity for 198 children and includes site improvement and supporting facilities. The project will provide child development services to dependent children of military personnel, civilian employees and contractor personnel of on-post activities.

ESTIMATED MCA COST: $1,750,000

- -

TYPE/TITLE: Child Development Center

LOCATION: Fort McPherson, GA

DESCRIPTION: This project is for the construction and operation of a child development center with a capacity for 244 children and includes site improvement and supporting facilities. The project will provide child development services to dependent children of military and DOD civilian personnel at Ft McPherson.

ESTIMATED MCA COST: $1,950,000

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Belvoir, Virginia	4.PROJECT TITLE Child Development Centers

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 740	7.PROJECT NUMBER 33446	8.PROJECT COST ($000) Auth 0 Approp 0

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,362
Child Development Center	SF	23,660	94.50	(2,236)
Playground w/Equipment	SF	15,150	5.25	(80)
Outdoor Storage Shed	SF	455	26.00	(12)
Information Systems	LS	-	-	(34)
Supporting Facilities				450
Electric Service	LS	-	-	(44)
Water, Sewer & Gas	LS	-	-	(40)
Paving, Walks, Curbs & Gutters	LS	-	-	(138)
Storm Drainage	LS	-	-	(64)
Site Improvement	LS	-	-	(156)
Information Systems	LS	-	-	(8)
Subtotal				2,812
Contingency (5.00%)				141
Total Contract Cost				2,953
Supervision, Inspection & Overhead (6.00%)				177
Total Request				3,130
Total Request (Rounded)				3,150
Installed Equipment - Other Appropriations				(58)

10 Description of Proposed Construction Construct a commercial-design child development center. Project will include educational television (ETV) superimposed on the commercial television antenna system, classrooms, offices, child care space, play areas, kitchens, laundry, restrooms, storage areas, intercommunication system and a outdoor public address system, playground with equipment, and outdoor storage shed. Supporting facilities include utilities, electric service, fire protection and alarm systems, walks, curbs and gutters, paving, fencing, access roads, storm drainage, information systems, and site improvements. Heating and air conditioning (96 tons) will be provided by a self-contained system. Access for the handicapped will be provided.

11. REQUIREMENT: 47,320 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a commercial-design child development center. (Current Mission)

REQUIREMENT: This project is required to provide child development service (303 child capacity) to families of the Department of Defense (DOD) civilian workforce, civilian families of nearby DOD units and tenant activities on-post. The initial needs of the Family Child Development Program are in excess of 400 spaces. Especially critical is the need for service to young family members, six weeks to six years of age. Virginia State law severely

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Belvoir, Virginia

4. PROJECT TITLE Child Development Centers	5. PROJECT NUMBER 33446

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
limits licensed development centers for children under two years of age by stringent restrictions as to where they can be located. The lack of a commercial development facility of this type centrally located within Fort Belvoir, further exacerbates demand on the military child development facilities. The requirement and demand is particularly acute in relation to DOD civilians as this is the only type of child development facility accessible to them at their workplace.

CURRENT SITUATION: Fort Belvoir currently has one military built, funded and operated child care center. Not withstanding this center, Fort Belvoir has a remaining shortage of 900 spaces. Of those on the waiting list, there are only 85 civilian children. The needs of the Army civilian population have not been accommodated because the Army sponsored child care facilities are designated to serve military personnel first. Therefore, far more than 85 children require care and are not represented on the wait list. Based upon Army Family Community Services (AFCS) parameters, it is estimated in excess of 400 DOD civilian children require accommodation. As the Fort Belvoir population increases from 16,000 to 22,000 by the year 1996, it is anticipated space will be needed for 550 children.

IMPACT IF NOT PROVIDED: If this project is not provided, the child care most desperately needed by DOD civilians -infant and toddler care- will not be available. Civilian members will continue to seek child care in illegal, substandard homes which provide little more than custodial care for their children, or will seek care from commercial providers at great distances from their work place. If a child development center is not available, skilled, valuable employees with children will seek employment where such care is available which results in a smaller labor pool to Fort Belvoir. Absenteeism and sick leave will be significant issues with parents who must accommodate children in need of pediatric care; a child development center will significantly reduce this time loss.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has been selected under Title 10 USC Section 2809 (Long Term Facilities Contract) as a candidate project. A preliminary economic analysis has been initiated in accordance with OMB Circular A-104 (Evaluating Leases of Capital Assets). The Section 2809 alternative appears to be competitive with conventional Military Construction, Army (MCA). A final economic analysis will be prepared for this project when actual proposal data for the commercially financed (Section 2809) alternative is available.

12. SUPPLEMENTAL DATA:

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Belvoir, Virginia

4.PROJECT TITLE	5.PROJECT NUMBER
Child Development Centers	33446

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Aug 90
(b) Percent Complete As Of 01 January 90 (BDGT YR)	60
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jun 92

(2) Basis:

(a) Standard or Definitive Design - Yes X No __

(b) Where Design Was Most Recently Used Fort Meade, Maryland

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	446
(b) All Other Design Costs	149
(c) Total Cost	595
(d) Contract	496
(e) In-house	99

(4) Construction Start .... Jan 93 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	93	58
		TOTAL	58

INTENTIONAL BLANK

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Detroit Arsenal, Michigan	4. PROJECT TITLE Child Development Center

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 33447	8. PROJECT COST ($000) Auth 0 Approp 0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,172
Child Development Center	SF	11,210	97.00	(1,087)
Playground w/Equipment	SF	14,500	5.25	(76)
Outdoor Storage Shed	SF	150	26.00	(4)
Information Systems	LS	-	-	(5)
Supporting Facilities				193
Electric Service	LS	-	-	(19)
Water, Sewer & Gas	LS	-	-	(9)
Paving, Walks, Curbs & Gutters	LS	-	-	(92)
Storm Drainage	LS	-	-	(9)
Site Improvement	LS	-	-	(47)
Information Systems	LS	-	-	(17)
Subtotal				1,365
Contingency (5.00%)				68
Total Contract Cost				1,433
Supervision, Inspection & Overhead (6.00%)				86
Total Request				1,519
Total Request (Rounded)				1,500
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design child development center. Work includes administrative offices, vestibules, hallways, bathrooms, kitchen, isolation room, mechanical room, storage, child care areas, outside play area with playground equipment. Supporting facilities include utilities, electric service, underground electric, paving, walks, curbs and gutters, parking, fencing, storm drainage, information systems, and site improvements. Access for the handicapped will be provided. Heating will be provided by a natural gas-fired system. Air conditioning (30 tons) will be provided by a separate unit.

11. REQUIREMENT: 11,210 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a standard-design child development center. (Current Mission)

REQUIREMENT: This project is required to provide child development services to promote physical, social, emotional, and intellectual growth and well being for children ages six weeks through five years. The child care facility (145 children) will service dependent children of military personnel, civilian employees, and contractor personnel populations that have not had this type of service readily accessible in their immediate work area.

CURRENT SITUATION: A child development center for 145 children of military

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Detroit Arsenal, Michigan		
4. PROJECT TITLE Child Development Center		5. PROJECT NUMBER 33447

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

personnel is under construction adjacent to the military housing area at Selfridge Air National Guard Base, 20 miles distant from Detroit Arsenal. Child care at the Detroit Arsenal workplace for 6,500 assigned military personnel, civilian employees, and operating contractor personnel is presently not available on-post. Private providers are located off-post but none are in reasonable proximity to the installation. These arrangements continue to cause problems with personnel attendance and performance, and are a significant factor in the installation's ability to compete with adjacent industry in attracting and retaining quality personnel.

IMPACT IF NOT PROVIDED: If this project is not provided, child care services will not be readily available at the workplace to military, Army civilian and contractor personnel, with resultant detrimental impacts on personnel attendance and performance. Trends for provision of child care services by neighboring commercial and industrial activities will have a direct negative impact on Detroit Arsenal's ability to compete in the recruiting and retention of a quality work force.

ADDITIONAL: This project has been coordinated with the installation physical security plan and the required physical security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M,"Construction Criteria", that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI),"Design Criteria" dated 14 July 1989. This project has been selected under Title 10 USC Section 2809 (Long Term Facilities Contract) as a candidate project. A preliminary economic analysis has been initiated in accordance with OMB Circular A-104 (Evaluating Leases of Capital Assets). The Section 2809 alternative appears to be competitive with conventional Military Construction, Army (MCA). A final economic analysis will be prepared for this project when actual proposal data for the commercially financed (Section 2809) alternative is available.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Aug 90

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Jun 92

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Monroe, Virginia

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Detroit Arsenal, Michigan

4. PROJECT TITLE Child Development Center	5. PROJECT NUMBER 33447

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(a) Production of Plans and Specifications	76
(b) All Other Design Costs	-59
(c) Total Cost	17
(d) Contract	-
(e) In-house	17

(4) Construction Start .... Jan 93 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Redstone Arsenal, Alabama	4. PROJECT TITLE Child Development Center

5. PROGRAM ELEMENT 72896A	6. CATEGORY CODE 740	7. PROJECT NUMBER 33449	8. PROJECT COST ($000) Auth 0 Approp 0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,389
Child Development Center	SF	16,400	80.00	(1,312)
Playground w/Equipment	LS	–	–	(62)
Outdoor Storage Shed	LS	–	–	(8)
Information Systems	LS	–	–	(7)
Supporting Facilities				189
Electric Service	LS	–	–	(23)
Water, Sewer & Gas	LS	–	–	(34)
Paving, Walks, Curbs & Gutters	LS	–	–	(33)
Storm Drainage	LS	–	–	(9)
Site Improvement	LS	–	–	(57)
Information Systems	LS	–	–	(19)
EMCS Connection	LS	–	–	(14)
Subtotal				1,578
Contingency (5.00%)				79
Total Contract Cost				1,657
Supervision, Inspection & Overhead (6.00%)				99
Total Request				1,756
Total Request (Rounded)				1,750
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design child development center. Work includes administrative offices, vestibules, hallways, bathrooms, kitchen, isolation room, mechanical and laundry rooms, storage, child care areas, playground and playground equipment. Connect to the energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, underground electric, paving, walks, curbs and gutters, parking, fencing, storm drainage, information systems, and site improvements. Heating and air conditioning (60 tons) will be provided by existing steam system. Access for the handicapped will be provided.

11. REQUIREMENT: 29,900 SF ADEQUATE: 13,500 SF SUBSTANDARD: None

PROJECT: Construct a standard-design child development center. (Current Mission)

REQUIREMENT: This project is required to provide child development services to promote physical, social, emotional, and intellectual growth and well being for children ages six weeks through five years. Current planning provides for concentration of Army civilian and military personnel along Redstone's main East/West thoroughfare, Martin Road. The child care facility (198 children) will serve that portion of Redstone's population that has not had a facility readily available in their immediate work area.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Redstone Arsenal, Alabama		
4.PROJECT TITLE Child Development Center		5.PROJECT NUMBER 33449

11. REQUIREMENT: (Continued)
CURRENT SITUATION: The existing military child care center is a two year old facility that is operating at full capacity (189 children) with an average user waiting list of 90 children. This facility is located in the north end of Redstone adjacent to the military housing area. The facility is available to civilian employees on a space available basis, but is not readily accessible to the majority of these users, especially the Army elements located off-post in the Huntsville, Alabama area. A second child care facility has been provided by the National Aeronautics and Space Administration (NASA) and is being operated in the NASA area for the dependants of NASA employees. This facility is filled to capacity (62 children) and currently has extensive priority and routine waiting lists. These facilities collectively can not adequately support the dependant children of the 12,000 civilian employees working within a one-mile radius of the site. In a recent survey, 577 civilian sponsors indicated they would utilize post child development facilities if such facilities were available.
IMPACT IF NOT PROVIDED: If this project is not provided, the present military and NASA child care facilities cannot meet the total Redstone requirements for both military and civilian work force. Child care services will not be as readily available to Army civilian employees as to assigned military or NASA personnel, with a resultant detrimental effect on personnel attendance and performance, and on the recruiting and retention of a quality work force.
ADDITIONAL: This project has been coordinated with the installation physical security plan and required physical security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria", that were in effect 1 January 1987, as implemented by the Army's Architectual and Engineering Instructions (AEI),"Design Criteria" dated 14 July 1989. This project has been selected under Title 10 USC Section 2809 (Long Term Facilities Contract) as a candidate project. A preliminary economic analysis has been initiated in accordance with OMB Circular A-104 (Evaluating Leases of Capital Assets). The Section 2809 alternative appears to be competitive with conventional Military Construction, Army (MCA). A final economic analysis will be prepared for this project when actual proposal data for the commercially financed (Section 2809) alternative is available.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... Aug 90
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Jun 92

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Redstone Arsenal, Alabama		
4.PROJECT TITLE Child Development Center		5.PROJECT NUMBER 33449

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes X No __

(b) Where Design Was Most Recently Used Fort Monroe, Virginia

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	126
(b) All Other Design Costs	42
(c) Total Cost	168
(d) Contract	140
(e) In-house	28

(4) Construction Start .... Jan 93 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort McPherson, Georgia	4.PROJECT TITLE Child Development Center

5.PROGRAM ELEMENT 88716A	6.CATEGORY CODE 740	7.PROJECT NUMBER 33450	8.PROJECT COST ($000) Auth 0 Approp 0

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,565
Child Development Center	SF	19,040	78.00	(1,485)
Playground w/Equipment	SF	14,640	4.50	(66)
Outdoor Storage Shed	SF	370	23.00	(9)
Information Systems	LS	-	-	(5)
Supporting Facilities				201
Electric Service	LS	-	-	(29)
Water, Sewer & Gas	LS	-	-	(36)
Paving, Walks, Curbs & Gutters	LS	-	-	(65)
Storm Drainage	LS	-	-	(7)
Site Improvement (52) Demolition (9)	LS	-	-	(61)
Information Systems	LS	-	-	(3)
Subtotal				1,766
Contingency (5.00%)				88
Total Contract Cost				1,854
Supervision, Inspection & Overhead (6.00%)				111
Total Request				1,965
Total Request (Rounded)				1,950
Installed Equipment - Other Appropriations				(9)

10 Description of Proposed Construction Construct a standard-design child development center. Work includes administrative offices, bathrooms, kitchen, isolation room, mechanical room, storage, child care areas, playground and outdoor storage shed. Supporting facilities include utilities, electric service, fire protection and alarm systems, sprinkler systems, storm drainage, paving, walks, curbs and gutters, parking, fencing, information systems, and site improvements. Heating and air conditioning (60 tons) will be provided by a gas-fired system. Access for the handicapped will be provided. Demolish one temporary wood World War II building (3,145 SF).

11. REQUIREMENT: 19,040 SF ADEQUATE: None SUBSTANDARD: 7,692 SF

PROJECT: Construct a standard-design child development center. (Current Mission)

REQUIREMENT: This project is required to provide the full range of Child Development Services to eligible family members and dependents of all assigned military and Department of Defense (DOD) civilian personnel at Fort McPherson. The current waiting list for Child Development Services shows a requirement to provide care for 345 children, of this 244 are of active duty military members and 101 civilians. The hourly care program currently accommodates 19 children each day which is insufficient and an additional 10 children must be turned

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McPherson, Georgia		
4. PROJECT TITLE Child Development Center		5. PROJECT NUMBER 33450

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
away due to lack of sufficient space. This project will replace the existing 105 child capacity center and provide a safe and healthy learning environment for the childhood development of all military family members ages six weeks through 12 years who have a need for the service provided by a properly designed, constructed, staffed and operated Child Development Center. Installation married military population is 1,560 and the civilian population is 3,631 which will generate 260 child care space requirements (projected FY 95 data).

CURRENT SITUATION: The existing military center, which operates under Department of the Army (DA) approved waivers, accommodates 105 children. Children of civilian employees are accommodated on a space available basis. The center is filled to capacity with a waiting list which includes 101 children of civilian employees. The Fort McPherson civilian work force totals 2,786 with an estimated increase to 3,631 by FY 95. Quarters based child care is being implemented at Fort McPherson, but the small number of quarters limits this as an option for satisfying demand. The availability of civilian child care which meets the needs of families, especially for infant care, near Fort McPherson is limited.

IMPACT IF NOT PROVIDED: If this proejct is not provided, this facility will result in continued severe shortages in all types of child care services. DOD civilian and military families will continue to be required to seek qualified civilian child care centers with their significantly higher costs or place their children in nonaccredited establishments where nutrition, sanitation, health, safety and supervision are of a questionable nature. The lack of adequate full day and hourly care for active duty and DOD civilians child care will continue to plague the community. The worry caused by the uncertainties of child care will degrade the morale of DOD civilians and the military member, adversely affect retention rates, degrade mission readiness, have a negative impact on the long term quality of DOD civilian and military family life and deprive the children of DOD civilian and military families of the learning experience properly designed, constructed, staffed and operated Child Development Centers can provide the future adults of our society.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has been selected under Title 10 USC Section 2809 (Long Term Facilities Contract) as a candidate project. A preliminary economic analysis has been initiated in accordance with OMB Circular A-104 (Evaluating Leases of Capital Assets). The Section 2809 alternative appears to be competitive with conventional Military Construction, Army (MCA). A final economic analysis will be prepared for this project when actual proposal

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort McPherson, Georgia		
4.PROJECT TITLE Child Development Center		5.PROJECT NUMBER 33450

11. REQUIREMENT: (Continued)

ADDITIONAL: (Continued)

data for the commercially financed (Section 2809) alternative is available.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Aug 90

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Jan 92

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used DA Design Manual

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 158

(b) All Other Design Costs 52

(c) Total Cost 210

(d) Contract 176

(e) In-house 34

(4) Construction Start .... Dec 92
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	93	9
		TOTAL	9

CONSTRUCTION FUNDED IN OTHER THAN MILCON - FY 91

A. Procurement

APPROPRIATION	PROJECT NUMBER	PROJECT TITLE	COST ESTIMATE ($000)
WTCV	4XX6037	Production Support	5,761
Location:	Lima Tank Plant, OH		
WTCV	1XX8173	Production Support	2,000
Location:	Stratford Army Engine Plant, CT		
ACFT	1XX8173	Production Support	4,359
Location:	Stratford Army Engine Plant, CT		
MSLS	39X2278	Safety Improvements,	2,988
Location:	Huntsville, AL	Rocket Motor Facility	
AMMO	5912030	Safety Bridge Replacement	3,023
Location:	Holston AAP, TN		
AMMO	5912245-02	Pyro Safety Enhancement	3,953
Location:	Lonestar AAP, TX		
AMMO	5912245-03	Pyro Safety Enhancement	1,034
Location:	Longhorn AAP, TX		
AMMO	5912673	Repair Main Steam Line	1,443
Location:	Holston AAP, TN		
AMMO	5912700-31	Safety - Lightning Prot	807
Location:	Lake City AAP, MO		
AMMO	5912700-34	Safety - Elec Conversion	1,241
Location:	Radford AAP, VA		
AMMO	5912700-43	Safety - Fire Det & Deluge	3,315
Location:	Lake City AAP, MO		
AMMO	5912995A	Igloo Stg Mag	2,054
Location:	Sunflower AAP, KS		
AMMO	5915327-13	Fire Station	643
Location:	Longhorn AAP, TX		
AMMO	5915327-16	Replace Water Lines	510
Location:	Longhorn AAP, TX		
AMMO	5915327-17	Loading Ramps	59
Location:	Longhorn AAP, TX		

APPROPRIATION	PROJECT NUMBER	PROJECT TITLE	COST ESTIMATE ($000)
AMMO	5915327-19	Forklift Ramp	18
Location:	Longhorn AAP, TX		
AMMO	5915327-21	Temp and Humidity System	118
Location:	Longhorn AAP, TX		
AMMO	5915327-51	Energy Conservation Mgt	100
Location:	Longhorn AAP, TX		
AMMO	5915326-03	Replace Acid Tanks	336
Location:	Radford AAP, VA		
AMMO	5915326-15	Replace Barricades	1,323
Location:	Radford AAP, VA		
AMMO	5915326-16	Fuel Storage/Dispensing	891
Location:	Radford AAP, VA		
AMMO	5915325-51	Steam Line Insulation	516
Location:	Sunflower AAP, KS		
AMMO	5915325-03	Fuel Storage Bldg 9004	61
Location:	Sunflower AAP, KS		
AMMO	5915325-10A	Fire Protection Tower 9031	43
Location:	Sunflower AAP, KS		
AMMO	5915325-10B	Sprinklers Bldg 1886	240
Location:	Sunflower AAP, KS		
AMMO	5915317-14	Side and Roof Bldgs	137
Location:	Milan AAP, TN		
AMMO	5915317-26-A	Reroof Bldgs	290
Location:	Milan AAP, TN		
AMMO	5915317-26-D	Reroof Bldgs	113
Location:	Milan AAP, TN		
AMMO	5915316-03	Deaerating Heaters	97
Location:	Lone Star AAP, TX		
AMMO	5915316-13	Replace Waterline	178
Location:	Lone Star AAP, TX		
AMMO	5915316-14	Repair Plant Roofs	200
Location:	Lone Star AAP, TX		

APPROPRIATION	PROJECT NUMBER	PROJECT TITLE	COST ESTIMATE ($000)
AMMO	5915316-15	Road Repairs	1,060
Location:	Lone Star AAP, TX		
AMMO	5915314-18	Hardsurface Roads	462
Location:	Louisiana AAP, LA		
AMMO	5915314-20	Replace Gas Main	291
Location:	Louisiana AAP, LA		
AMMO	5915330-10	Floor/Stair Replacement	522
Location:	Indiana AAP, IN		
AMMO	5915330-15	Waterproof Igloos, Phase V	760
Location:	Indiana AAP, IN		
AMMO	5915330-18	Replace Fire Alarm Bldg 703	65
Location:	Indiana AAP, IN		
AMMO	5915330-51	Oxygen Control for Boilers	17
Location:	Indiana AAP, IN		
AMMO	5915332-10-03	Heat Controls Bldg 19	184
Location:	Lake City AAP, MO		
AMMO	5915332-10-05	Replace Sprinkler System	784
Location:	Lake City AAP, MO		
AMMO	5915332-10-06	Emerg Warning Bldg 121	18
Location:	Lake City AAP, MO		
AMMO	5915332-17	Timber Retaining Walls	437
Location:	Lake City AAP, MO		
AMMO	5915332-19	Reroof Plant Facility	861
Location:	Lake City AAP, MO		
AMMO	5915332-28	Rehab Owens School House Rd	762
Location:	Lake City AAP, MO		
AMMO	5915333-10	Steam Distribution System	185
Location:	Iowa AAP, IA		
AMMO	5915333-15	Upgrade HVAC Bldg 300-148	209
Location:	Iowa AAP, IA		
AMMO	5915333-19	Replace Roof Bldg 300-148	241
Location:	Iowa AAP, IA		

APPROPRIATION	PROJECT NUMBER	PROJECT TITLE	COST ESTIMATE ($000)
AMMO Location: Iowa AAP, IA	5915333-21	Switchboard and Gear	1,399
AMMO Location: Iowa AAP, IA	5915333-22	Truck Docks Yard E	219
AMMO Location: Newport AAP, IN	5915201-18	Chem/Indus Area Energy Red	1,473
AMMO Location: Twin Cities AAP, MN	5915201-22	Boiler Economizer Bldg 115	257

B. Other Appropriations

APPROPRIATION	NO. OF PROJECTS	COST ESTIMATE ($000)
RDTE	131	10,068
OMA (Maint and Repair)	1,984	506,000
(Minor Construction)	6,077	172,000
OMAR (Maint and Repair)	1,145	41,622
(Minor Construction)	337	6,907

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Alabama		Anniston Army Depot (AMC)			3
	211	Ammunition Demil Maintenance Facility	10,200	10,200	5
	21870	Ammunition Demilitarization Facility	54,300	54,300	9
		SUBTOTAL Anniston Army Depot PART I	$ 64,500	64,500	
		Redstone Arsenal (AMC)			13
	2687	Physical Sciences Research Center	14,400	14,400	15
		SUBTOTAL Redstone Arsenal PART I	$ 14,400	14,400	
		Fort Rucker (TRADOC)			19
	9992	Flight Simulator Building	3,400	3,400	21
		SUBTOTAL Fort Rucker PART I	$ 3,400	3,400	
		* TOTAL MCA FOR Alabama	$ 82,300	82,300	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Anniston Army Depot Alabama	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX .88

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	23	28	4546	0	0	0	0	0	51	4,648
B. END FY 95	22	28	4444	0	0	0	0	0	51	4,545

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	15,250 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	122,509
C. AUTHORIZATION NOT YET IN INVENTORY..................................	11,370
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	64,500
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	5,800
F. PLANNED IN NEXT THREE YEARS...	40,221
G. REMAINING DEFICIENCY..	245,593
H. GRAND TOTAL..	489,993

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
216	21870	Ammunition Demilitarization Facility	54,300	01/87	01/91
216	211	Ammunition Demilitarization Maintenance Fac	10,200	04/90	11/90
		SUBTOTAL PROJECTS OVER $1M	64,500		
		TOTAL	64,500		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
212	Missile Maintenance Facility	5,800
	SUBTOTAL PROJECTS OVER $1M	5,800
	TOTAL	5,800
B. PLANNED NEXT THREE PROGRAM YEARS :		
216	CHEM STOCKPILE DISP FAC	36,000
821	Heat Plant Modernization	3,891
	SUBTOTAL PROJECTS OVER $1M	39,891
800	Temperature Controls (ECIP)	330
	SUBTOTAL PROJECTS $1M & LESS	330
	TOTAL	40,221

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Anniston Army Depot Alabama

10. MISSION OR MAJOR FUNCTIONS:

To operate a supply depot for the receipt, storage, and issue of assigned commodities, i.e., general supply and ammunition, strategic and critical materials, shelter supplies, war reserve stock, etc. To operate a depot maintenance facility for the repair, overhaul, modification, and conversion of assigned commodities, i.e., combat and tactical vehicles, artillery, small arms, ammunition, missiles, etc. To provide installation support to attached organizations, and to operate assigned facilities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Anniston Army Depot, Alabama	4.PROJECT TITLE Ammunition Demil Maintenance Facility

5.PROGRAM ELEMENT 71109A	6.CATEGORY CODE 216	7.PROJECT NUMBER 211	8.PROJECT COST ($000) Auth 10,200 Approp 10,200

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,975
Ammo Renovation Shop	SF	23,450	109.00	(2,556)
Service Magazines	SF	2,160	165.00	(356)
Road Upgrades	LS	–	–	(2100)
Expand Water System	LS	–	–	(1,731)
IDS Installation	LS	–	–	(159)
See Cost Estimates (Continued)				(1,073)
Supporting Facilities				1,109
Electric Service	LS	–	–	(154)
Water, Sewer & Gas	LS	–	–	(60)
Paving, Walks, Curbs & Gutters	LS	–	–	(200)
Storm Drainage	LS	–	–	(74)
Site Improvement	LS	–	–	(589)
Information Systems	LS	–	–	(32)
Subtotal				9,084
Contingency (5.00%)				454
Total Contract Cost				9,538
Supervision, Inspection & Overhead (6.00%)				572
Total Request				10,110
Total Request (Rounded)				10,200
Installed Equipment - Other Appropriations				(614)

10.Description of Proposed Construction Construct a depot-level munitions maintenance facility and three service magazines; upgrade chemical munitions haul roads; extend potable water supply system; and extend existing chemical restricted area security fencing and lighting. Install an intrusion detection system (IDS). The munitions maintenance facility includes an attached support-administrative annex with lunch and break area, latrine, shower, locker and change room facilities, administrative areas, and mechanical spaces. Special features include integral overhead bridge cranes and monorail hoists, blast walls, conductive flooring, a vapor containment room, chemical agent resistant paint booth with drying ovens, spill containment with drains to doubled walled sump with monitoring system, chemical monitoring and filtering systems, respiratory air supply with backup for the vapor containment room, compressed air with redundant distribution throughout the building, filtered air and a toxic change house in the support annex, rapid response deluge system, automatic standby generator, an uninterrupted power source (OPA funded), and a comprehensive earthen grounding system which includes lightning protection. Supporting facilities include utilities, electric service, fire protection and alarm systems, paving, parking, storm drainage, information systems, and site improvements. Heating will be

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Anniston Army Depot, Alabama		
4.PROJECT TITLE Ammunition Demil Maintenance Facility		5.PROJECT NUMBER 211

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Security Fencing and Lighting	LF	5,800	109.14	633
Information Systems	LS	-	-	2
Emergency Generator	LS	-	-	438
			Total	1,073

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)
provided by self-contained dual-fuel (oil/gas-fired) unit. Air conditioning (100 tons) with filtering and monitoring will be provided by special designed independent units. Road upgrades include widening and overlay of existing roads, construct additional roads, concrete aprons, and walkways.

11. REQUIREMENT: 127,667 SF ADEQUATE: 75,417 SF SUBSTANDARD: None

PROJECT: Construct a chemical conventional munitions maintenance facility and modify ammunition maintenance and support facilities. (New Mission)

REQUIREMENT: This project is required to provide an adequate chemical and conventional munitions maintenance facility with appropriate explosive and toxic chemical safety and surety features and in-process storage magazines to support chemical munitions reconfiguration (separation of toxic-loaded projectiles from explosive propellants and primers) to facilitate toxic chemical demilitarization (Chem Demil) operations and meet Congressional mandates. It additionally improves existing chemical haul roads to load-bearing and safety standards required to support and sustain demil production schedules; provides adequate water supplies to the demil complex to meet potable, process and fire protection water requirements; and, provides and install security fencing, lighting, and IDS to incorporate the new munitions maintenance facility and magazines within the chemical restricted area. This project must start construction in 1992 so that support facilities will be available in 1993 to begin reconfiguration operations.

CURRENT SITUATION: A chemical stockpile demilitarization complex is included in the FY 91 Military Construction Program (Project Number 21870, $54 million), and provides facilities for the actual demilitarization and destruction of on-hand unitary chemical munitions and bulk toxic agent. Construction start-up is projected for January 1991, with anticipated completion by February 1994. Existing chemical operations support facilities are not adequate to meet or sustain demil complex requirements. Chemical munitions maintenance support is now provided from a converted cafeteria building and is limited by building capabilities to spot cleaning and painting, and remarking. The facility lacks the structural, chemical and explosive safety, environmental containment, and surety measures required for safe chemical operations and cannot be made adequate. Existing storage magazines in the chemical area are highly utilized and cannot provide space to store explosive propellants, primers, or inert items resulting from reconfiguration operations. Existing haul roads within the chemical area are

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Anniston Army Depot, Alabama		
4.PROJECT TITLE Ammunition Demil Maintenance Facility		5.PROJECT NUMBER 211

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
too narrow and winding to be safely navigated by the oversized and overweight transporter required to safely move the chemical munitions, and are too lightly constructed to withstand projected loads. The chemical area does not have a water distribution or storage system with sufficient capacity to meet process or fire-protection requirements, or provide for drinking or personnel hygiene or sanitation needs.
IMPACT IF NOT PROVIDED: If this project is not provided, scheduled production rates for the safe demilitarization of unitary chemical munitions stocks and bulk toxic agent stored at this location cannot be supported or sustained. Congressional mandates for the disposal of the current toxic chemical munitions stockpile by 1997 cannot be met.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Apr 90
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 0
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 95
(d) Design Complete Date .... Nov 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 612
(b) All Other Design Costs .... ___
(c) Total Cost 612
(d) Contract 0
(e) In-house 612

(4) Construction Start .... Apr 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Anniston Army Depot, Alabama		
4. PROJECT TITLE Ammunition Demil Maintenance Facility		5. PROJECT NUMBER 211

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	374
Information Sys Eq	OPA	91	9
UPS	OPA	91	231
		TOTAL	614

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Anniston Army Depot, Alabama	4.PROJECT TITLE Ammunition Demilitarization Facility

5.PROGRAM ELEMENT 71109A	6.CATEGORY CODE 216	7.PROJECT NUMBER 21870	8.PROJECT COST ($000) Auth 54,300 Approp 54,300

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				33,635
Munitions Demil Building (MDB)	SF	83,736	198.31	(16,606)
Process Utilities Building	SF	28,834	97.35	(2,807)
Container Handling Building	SF	51,000	132.60	(6,763)
Corridor	SF	6,000	132.60	(796)
MDB Filter Pads	SF	14,640	11.82	(173)
See Cost Estimates (Continued)				(6,490)
Supporting Facilities				15,152
Electric Service	LS	–	–	(3,827)
Water, Sewer & Gas	LS	–	–	(1,029)
Paving, Walks, Curbs & Gutters	LS	–	–	(2,419)
Storm Drainage	LS	–	–	(66)
Site Improvement	LS	–	–	(4,568)
Information Systems	LS	–	–	(527)
Fuel Storage/Distribution	LS	–	–	(2,716)
Subtotal				48,787
Contingency (5.00%)				2,439
Total Contract Cost				51,226
Supervision, Inspection & Overhead (6.00%)				3,074
Total Request				54,300
Total Request (Rounded)				54,300
Installed Equipment - Other Appropriations				(1,578)

10.Description of Proposed Construction Construct a toxic chemical munitions demilitarization (Demil) complex to process lethal chemical munitions. Primary facilities include a munitions demilitarization building (MDB) with blast containment area connected to a munitions container handling building.by an enclosed corridor; a process utilities building with bulk chemical storage, brine reduction facilities, and a boiler room; a personnel and maintenance facility with change rooms, maintenance storage facility and a medical treatment area; a process support and administrative building; a chemical analysis laboratory; and an entry control facility. Special features include blast doors, fire protection, a cascading heating, ventilation, air conditioning (HVAC) system with airlocks for agent containment, special air filtration, special personnel protective clothing area, toxic chemical resistive coatings and surfaces, explosion-proof electrical fixtures, and an intrusion detection system (IDS). Supporting facilities include utilities, wastewater treatment plant, electric service, an electrical substation, standby electric generators, paving and surfacing, walks, curbs and gutters, access road, fire protection and alarm systems, storm drainage, security fencing, gates and lighting, fuel storage and distribution, information systems, and site improvements. Heating will be provided by an oil-fired

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Anniston Army Depot, Alabama		
4. PROJECT TITLE Ammunition Demilitarization Facility		5. PROJECT NUMBER 21870

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Process Support Building	SF	12,619	78.69	993
Personnel Maintenance Building	SF	18,257	121.10	2,211
Entry Control Facility	SF	1,243	322.61	401
Laboratory	SF	8,400	202.98	1,705
IDS Installation	LS	-	-	750
Information Systems	LS	-	-	430
			Total	6,490

central system and air conditioning (500 tons) will be provided by self-contained units.

11. REQUIREMENT: 210,089 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a standard-design toxic chemical munitions demilitarization complex to dispose of lethal chemical agent munitions stored at Anniston Army Depot. (New Mission)

REQUIREMENT: This project is required to provide the capability to demilitarize and dispose of the toxic chemical agents and munitions stored at this location in a safe, environmentally acceptable manner. Congress has mandated the disposal of the existing unitary chemical stockpile. The project is covered under Public Laws 99-145, 99-661, and 100-180. The Army has submitted an implementation plan to Congress in March 1988 in response to a specific Congressional request, which cites this facility as an integral and essential part of the chemical stockpile disposal program.

CURRENT SITUATION: Rockets, mines, projectiles, and one-ton containers containing lethal chemical agents are stored in igloos at the installation. Some of these munitions currently exhibit an accelerated rate of deterioration. These munitions are of no strategic value but they must be safely stored and inspected to ensure that there is no risk to the public or the environment. The monitoring and surveillance costs for safe storage continue to accrue. No other acceptable disposal facilities are available.

IMPACT IF NOT PROVIDED: If this project is not provided, the Army will not be able to comply with the Congressional mandate for chemical munitions stockpile disposal. Also, maintenance and surveillance costs will continue to grow as the agents and munitions deteriorate with age. The threat to the health of Depot employees and the environment will continue.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Anniston Army Depot, Alabama		
4. PROJECT TITLE Ammunition Demilitarization Facility		5. PROJECT NUMBER 21870

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data:

(1) Status:

(a)	Design Start Date	Jan 87
(b)	Percent Complete As Of 01 January 90 (BDGT YR)	35
(c)	Percent Complete As Of 01 October 90 (PROG YR)	80
(d)	Design Complete Date	Jan 91

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	2,060
(b)	All Other Design Costs	
(c)	Total Cost	2,060
(d)	Contract	2,060
(e)	In-house	0

(4) Construction Start .... Sep 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furnaces/Control Sys	PAA	91/2	31
Standardized Equip	PAA	91-3	52
Non-Std Equip & Inst	PAA	92/3	39
IDS Equipment	OPA	92	751
Standby Emer Gen	OPA	92	704
		TOTAL	1,577

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

3. INSTALLATION AND LOCATION Redstone Arsenal Alabama	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX .85

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	580	1560	9748	212	1414	18	19	89	8816	22,456
B. END FY 95	565	1536	9440	163	1288	16	19	88	8816	21,931

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	38,235 AC
B. INVENTORY TOTAL AS OF 30 SEP 89......................................	274,693
C. AUTHORIZATION NOT YET IN INVENTORY...................................	58,522
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	14,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	9,800
F. PLANNED IN NEXT THREE YEARS..	107,810
G. REMAINING DEFICIENCY...	225,509
H. GRAND TOTAL..	690,734

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE		COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
310	02687	Physical Sciences Research Center		14,400	04/84	01/87
		SUBTOTAL PROJECTS OVER $1M		14,400		
			TOTAL	14,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE		COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :			
171	General Instruction Facility		7,300
171	General Instruction Facility		2,500
	SUBTOTAL PROJECTS OVER $1M		9,800
		TOTAL	9,800
B. PLANNED NEXT THREE PROGRAM YEARS :			
610	CRASIM Building I		22,000
610	CRASIM BLDG II		17,000
851	ACCESS ROADS EXT/IMP		11,200
	SUBTOTAL PROJECTS OVER $1M		50,200
		TOTAL	50,200

10. MISSION OR MAJOR FUNCTIONS:

Headquarters of US Army Missile Command, the principle commodity center for the research and development effort on rockets, guided missiles and related systems and equipment. Home of the Army Missile and Munitions Training Center and School which conducts missile and munitions

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Redstone Arsenal Alabama

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

(Ordnance) training.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Redstone Arsenal, Alabama	4.PROJECT TITLE Physical Sciences Research Center

5.PROGRAM ELEMENT 72009A	6.CATEGORY CODE 312	7.PROJECT NUMBER 2687	8.PROJECT COST ($000) Auth 14,400 Approp 14,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				11,824
Physical Sciences Research Cmplx	SF	88,000	116.35	(10,239)
Substation	KV	10,000	47.74	(477)
Range Embankment	CY	120,000	8.02	(962)
IDS Installation	LS	-	-	(31)
Information Systems	LS	-	-	(115)
Supporting Facilities				1,055
Electric Service	LS	-	-	(33)
Water, Sewer & Gas	LS	-	-	(37)
Paving, Walks, Curbs & Gutters	LS	-	-	(395)
Storm Drainage	LS	-	-	(42)
Site Improvement (432) Demolition (67)	LS	-	-	(499)
Information Systems	LS	-	-	(3)
Special Gases	LS	-	-	(46)
Subtotal				12,879
Contingency (5.00%)				644
Total Contract Cost				13,523
Supervision, Inspection & Overhead (6.00%)				811
Total Request				14,334
Total Request (Rounded)				14,400
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct a standard-design physical sciences research complex including high energy physics laboratories; a dedicated, adjacent outdoor test range with protective earth embankment; and test, assembly, fabrication, engineering and administrative work spaces. Install an intrusion detection system (IDS). Special features include high bays with roll up doors and overhead crane, humidity-controlled work areas with small clean room, vibration isolation pads in test cells and laboratories, hazardous material storage and containment, a freight elevator, and a 10,000 KV substation. Supporting facilities include utilities, paving, walks, curbs and gutters, security fencing and lighting, fire protection and alarm systems, parking, storm drainage, information systems, and site improvements. Access for the handicapped will be provided. Heating and air conditioning (329 tons) will be provided by oil-fired self-contained units. Demolish two buildings (34,699 SF).

11. REQUIREMENT: 157,762 SF ADEQUATE: 43,460 SF SUBSTANDARD: None

PROJECT: Construct a standard-design physical sciences research complex with high energy physics laboratories. (Current Mission)

REQUIREMENT: This project is required to provide adequate laboratories for research, development, and testing of high energy optic, electro-optic,

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Redstone Arsenal, Alabama		
4.PROJECT TITLE Physical Sciences Research Center		5.PROJECT NUMBER 2687

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
photonic, laser, submillimeter and directed energy devices, for the next generation of smart weapons and munitions. Planned support includes provisions for customer funded research for all Services; technology is directly applicable to close combat, forward air defense, fire support, and high or medium air defense weapons systems.
CURRENT SITUATION: Activities are currently dispersed in four World War II vintage facilities separated by up to six miles. Facilities were not designed or constructed to meet sensitive optics laboratory conditions; they lack vibration isolation, and the high degree of dust and particulate causes contamination and optical system interference. Roofs leak on high power components, power distribution circuits and wiring. Buildings lack environmental control, resulting in system interference and testing and equipment anomalies. There are no darkrooms for film processing to support holographic research. Available ranges lack access control and could endanger persons in adjacent public areas, requiring extreme caution during use.
IMPACT IF NOT PROVIDED: If this project is not provided, activities leading to the development of sensors, seekers and high energy devices will continue to be delayed and require extensive retesting due to the inadequacies of available development facilities. The next generation of smart weapons and munitions will be delayed. Continuing annual expenditures in excess of $4 million will be incurred for operations and maintenance, retest and downtime due to existing inadequate facilities.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Status Quo and Ad Hoc. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($36,342 K) is recommended, as more cost effective than Status Quo ($45,365 K) and Ad Hoc ($48,111 K).

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Apr 84
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jan 87

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Redstone Arsenal, Alabama		
4.PROJECT TITLE Physical Sciences Research Center		5.PROJECT NUMBER 2687

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(b) Where Design Was Most Recently Used Definitive Design

(3)	Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a)	Production of Plans and Specifications	500
(b)	All Other Design Costs	520
(c)	Total Cost	1,020
(d)	Contract	750
(e)	In-house	270

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Rucker Alabama	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .85

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1574	2622	3312	1355	1772	19	41	38	315	11,048
B. END FY 95	1532	2642	3282	1395	1617	10	41	38	315	10,872

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	59,934 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	195,909
C. AUTHORIZATION NOT YET IN INVENTORY..................................	51,545
D. AUTHORIZATION REQUESTED IN THIS PROGRAM.............................	3,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	15,010
F. PLANNED IN NEXT THREE YEARS..	113,438
G. REMAINING DEFICIENCY..	168,945
H. GRAND TOTAL...	548,247

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
171	09992	Flight Simulator Building	3,400	06/85	09/90
		SUBTOTAL PROJECTS OVER $1M	3,400		
		TOTAL	3,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
141	Aircraft Maintenance Hangar	14,600
	SUBTOTAL PROJECTS OVER $1M	14,600
179	Pistol Range	410
	SUBTOTAL PROJECTS $1M & LESS	410
	TOTAL	15,010
B. PLANNED NEXT THREE PROGRAM YEARS :		
111	RUNWAY RW STAGEFIELD	21,000
124	Petroleum Lab and Fuel Storage	10,000
610	PERSONNEL SERVICE FACS	9,900
	SUBTOTAL PROJECTS OVER $1M	40,900
	TOTAL	40,900

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Rucker Alabama

10. MISSION OR MAJOR FUNCTIONS:

Provides facilities and support for the Army Aviation Center and School whose mission is to provide individual pilot training for all fixed wing and rotary wing aircraft and advanced doctrines and techniques.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DD FORM 1 DEC 76 1390C

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Rucker, Alabama	4. PROJECT TITLE Flight Simulator Building

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 171	7. PROJECT NUMBER 9992	8. PROJECT COST ($000) Auth 3,400 Approp 3,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,485
Flight Simulator Bldg, AVCATT	SF	24,350	99.59	(2,425)
Information Systems	LS	-	-	(60)
Supporting Facilities				568
Electric Service	LS	-	-	(97)
Water, Sewer & Gas	LS	-	-	(20)
Steam, Chilled Water & Heat Distribution	LS	-	-	(112)
Paving, Walks, Curbs & Gutters	LS	-	-	(48)
Storm Drainage	LS	-	-	(26)
Site Improvement (165) Demolition (5)	LS	-	-	(170)
Information Systems	LS	-	-	(90)
EMCS Connections	LS	-	-	(5)
Subtotal				3,053
Contingency (5.00%)				153
Total Contract Cost				3,206
Supervision, Inspection & Overhead (6.00%)				192
Total Request				3,398
Total Request (Rounded)				3,400
Installed Equipment - Other Appropriations				(15,044)

10. Description of Proposed Construction Construct a facility to house an Army Aviation Combined Arms Tactical Trainer (AVCATT) flight simulator system. Connection to the energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, information systems, walks, fencing, curbs and gutters, security lighting, fire protection and alarm systems, storm drainage, parking, and site improvements. Heating will be provided by the central gas-fired plant. Air conditioning (125 tons) will be provided by a self-contained system. Demolish two temporary buildings (5,000 SF). Support facility costs are high due to site improvements required at the project location.

11. REQUIREMENT: 193,792 SF ADEQUATE: 124,817 SF SUBSTANDARD: None

PROJECT: Construct a facility to house an Army Aviation Combined Arms Tactical Trainer flight simulator system. (Current Mission)

REQUIREMENT: This project is required to provide a flight simulator building to house an Aviation Combined Arms Tactical Trainer (AVCATT) which the Government will purchase and set up for training beginning in 1992. This new trainer will support Aviation Team, Joint, and Combined Arms training and will train up to two company size elements of pilots (16 crews). A minimum of 50 people, maximum of 65, will use this building simultaneously.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Rucker, Alabama		
4. PROJECT TITLE Flight Simulator Building		5. PROJECT NUMBER 9992

11. REQUIREMENT: (Continued)

CURRENT SITUATION: There is no facility available or capable of housing this trainer. Aviation team training, when conducted, is accomplished using scarce flying hours, air frames, and training areas. Competition for these resources is intense and, as a result, the aviator gets more theory than practice in this area. Due to the nature of flying, safety and environmental constraints also impact heavily. Additionally, rising ammunition costs and aircraft operating costs hamper the amount of training time available.

IMPACT IF NOT PROVIDED: If this project is not provided, aviation training will continue to be hampered by limited resources, safety and environmental constraints, and rising costs. The new trainer cannot be delivered until the proposed building has been completed. Only limited training will be accomplished without the AVCATT, it will be expensive in terms of all resources required, e.g. costs, training area usage, aircraft, and pilots.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that was in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jun 85

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 78

(b) All Other Design Costs 127

(c) Total Cost 205

(d) Contract 131

(e) In-house 74

(4) Construction Start .... Jan 91
month & year

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Rucker, Alabama

4.PROJECT TITLE Flight Simulator Building	5.PROJECT NUMBER 9992

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Computer Flight Simulator Systems (AVCATT)	OPA	91	15044
		TOTAL	15,044

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) / PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Alaska		Fort Wainwright (WESTCOM)				27
	15277	Consolidated Fuel Facility		2,300	2,300	29
	23589	Utilities Expansion		3,300	3,300	32
		SUBTOTAL Fort Wainwright PART I	$	5,600	5,600	
		* TOTAL MCA FOR Alaska	$	5,600	5,600	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Wainwright Alaska	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 2.06

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	565	4121	677	0	0	0	8	40	325	5,736
B. END FY 95	670	4703	695	0	0	0	8	40	325	6,441

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	656,229 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	265,755
C. AUTHORIZATION NOT YET IN INVENTORY..................................	69,226
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	5,600
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	11,200
F. PLANNED IN NEXT THREE YEARS..	73,300
G. REMAINING DEFICIENCY...	44,787
H. GRAND TOTAL..	469,868

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE		COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
411	15277	Consolidated Fuel Facility		2,300	09/86	09/90
841	23589	Utilities Expansion		3,300	09/87	09/90
		SUBTOTAL PROJECTS OVER $1M		5,600		
			TOTAL	5,600		

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9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE		COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :			
171	Battle Simulation Facility		8,200
730	Unit Chapel		3,000
	SUBTOTAL PROJECTS OVER $1M		11,200
		TOTAL	11,200
B. PLANNED NEXT THREE PROGRAM YEARS :			
721	BARRACKS MOD (B1004)-LID		16,950
179	INF PLAT BTL COURSE-LID		12,000
214	Vehicle Maintenance Facility		9,200
	SUBTOTAL PROJECTS OVER $1M		38,150
		TOTAL	38,150

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10. MISSION OR MAJOR FUNCTIONS:

The mission is to deploy rapidly worldwide in defense of United States interests and objectives, and to defend the state of Alaska, including the Aleutian Islands, from any adversary.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Wainwright Alaska

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	500
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Wainwright, Alaska	4.PROJECT TITLE Consolidated Fuel Facility

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 411	7.PROJECT NUMBER 15277	8.PROJECT COST ($000) Auth 2,300 Approp 2,300

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,518
Fuel Station Building	SF	450	384.44	(173)
Mechanical Room	SF	62	387.10	(24)
Fuel Storage	GA	60,000	4.77	(286)
Fuel Pump and Piping	EA	14	5,000	(70)
Oil Storage Building	SF	120	133.33	(16)
See Cost Estimates (Continued)				(949)
Supporting Facilities				547
Electric Service	LS	-	-	(45)
Water, Sewer & Gas	LS	-	-	(23)
Steam, Chilled Water & Heat Distribution	LS	-	-	(22)
Paving, Walks, Curbs & Gutters	LS	-	-	(287)
Storm Drainage	LS	-	-	(11)
Site Improvement	LS	-	-	(157)
Information Systems	LS	-	-	(2)
Subtotal				2,065
Contingency (5.00%)				103
Total Contract Cost				2,168
Supervision, Inspection & Overhead (6.50%)				141
Total Request				2,309
Total Request (Rounded)				2,300
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct a consolidated fuel facility with 24 outlets and a 60,000 gallon fuel storage capacity, an operations building with office space, restrooms, storage closet, fuel pump controls with remote readout, credit card activation, and automatic readout and printout. Also construct an oil storage building, three diesel fueling islands, two motor gasoline (MOGAS) fueling islands, one fueling island, vehicle waiting areas and driveways. Supporting facilities include utilities, information systems, fire protection, alarm and security systems, storm drainage, concrete pads, gravel waiting areas, parking, access roads, site improvements, and truck fill stand.

11. REQUIREMENT: 28 EA ADEQUATE: 4 EA SUBSTANDARD: None

PROJECT: Construct a consolidated fueling facility. (New Mission)

REQUIREMENT: This project is required to support the activation of the 6th Infantry Division (Light) which will increase the number of vehicles served from 350 to approximately 1,450. All the military vehicles (Table of Equipment (TOE) and Transportation Motor Pool (TMP)) will be fueled at this facility. A total of 28 outlets is required to service 1,450 vehicles. Four outlets are existing, and an additional 24 outlets on 14 pumps are required.

CURRENT SITUATION: Presently there are four fueling points (outlets) and

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Wainwright, Alaska		
4.PROJECT TITLE Consolidated Fuel Facility		5.PROJECT NUMBER 15277

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Concrete Pad	SY	1,747	104.75	183
Utilidor	LF	150	580.00	87
Canopy	SF	2,300	58.26	134
Credit Card System	LS	-	-	35
Fuel Spill Tank	GA	2,500	2.00	5
Truck Fill Stand	LS	-	-	503
Information Systems	LS	-	-	2
			Total	949

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued) storage for 10,000 gallons each of diesel fuel and MOGAS at Fort Wainwright. Even without additional vehicles, when the resident units go to the field, they may have to wait 20 to 30 minutes in line for fuel. During major exercises, there are even longer waiting times.

IMPACT IF NOT PROVIDED: If this project is not provided, the increase in the number of vehicles could lead to a two-hour wait for fuel when resident units are going to the field, and considerably longer waiting periods during a major exercise. During the arctic winter, the vehicles would have to idle while waiting in line, wasting fuel and greatly increasing the air pollution on Fort Wainwright.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Using Commercial Facilities. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($4,621 K) is recommended as more cost effective than Using Commercial Facilities ($5,712 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Sep 86

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 95

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Wainwright, Alaska		
4. PROJECT TITLE Consolidated Fuel Facility		5. PROJECT NUMBER 15277

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	140
(b)	All Other Design Costs	275
(c)	Total Cost	415
(d)	Contract	0
(e)	In-house	415

(4) Construction Start .... Apr 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Wainwright, Alaska	4. PROJECT TITLE Utilities Expansion

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 841	7. PROJECT NUMBER 23589	8. PROJECT COST ($000) Auth 3,300 Approp 3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,834
Waterline	LS	-	-	(1566)
Motor/Operator Control Fac	LS	-	-	(220)
High Service Pump w/Pipe	LS	-	-	(350)
Asbestos and Pipe Removal	LS	-	-	(240)
Pipe Insul., 3-1/2 Thick	LS	-	-	(220)
See Cost Estimates (Continued)				(238)
Subtotal				2,834
Contingency (10.00%)				283
Total Contract Cost				3,117
Supervision, Inspection & Overhead (6.50%)				203
Total Request				3,320
Total Request (Rounded)				3,300
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a high service pump and water transmission lines (16-inch, 14-inch, 12-inch, 8-inch) with appurtenances, for fire suppression demands on North Post. Project includes piping installation, asbestos and existing pipe removal, and controls at the water treatment plant to upgrade the existing system.

11. REQUIREMENT: 1,041,043 LF ADEQUATE: 1,000,213 LF SUBSTANDARD: 35,000 L

PROJECT: Construct water transmission lines and a high service pump. (New Mission)

REQUIREMENT: This project is required to provide needed fire protection for three buildings. An automated motor operator control system is needed for quick response to fire demands.

CURRENT SITUATION: The present water distribution system at North Post cannot provide the pressures and flows for fire protection at an administration building, a hangar, and a communications center. The existing wells can provide the required volume for water, but the existing distribution system does not provide the required flow rates and pressures. The flow/pressure situation is a year-round problem. The existing motor operator control system is a 1960 vintage and manually operated.

IMPACT IF NOT PROVIDED: If this project is not provided, the buildings used

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Wainwright, Alaska

4.PROJECT TITLE Utilities Expansion	5.PROJECT NUMBER 23589

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Upgrade Firewell (B-1032)	LS	-	-	225
Fire Hydrant	EA	4	3,250	13
			Total	238

11. REQUIREMENT: (Continued)

IMPACT IF NOT PROVIDED: (Continued)
by the 6th Infantry Division (Light) will not be adequately protected against fire. The wood framed hangar and administration building will remain not only a danger to the personnel who work in them, but also to personnel in the new offices to be built near the hangar. Without this project, it will be difficult to prevent even a small fire from growing, possibly resulting in the total loss of these buildings and their contents.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Sep 87

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 100

(b) All Other Design Costs 213

(c) Total Cost 313

(d) Contract 0

(e) In-house 313

(4) Construction Start .... Apr 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Wainwright, Alaska

4. PROJECT TITLE Utilities Expansion	5. PROJECT NUMBER 23589

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Arizona		Fort Huachuca (USAISC)				37
	1330	Fire Station		1,050	1,050	39
		SUBTOTAL Fort Huachuca PART I	$	1,050	1,050	
		* TOTAL MCA FOR Arizona	$	1,050	1,050	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Huachuca Arizona	4. COMMAND US Army Information Systems Command	5. AREA CONSTRUCTION COST INDEX 1.13

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	727	3810	3456	627	937	10	36	70	347	10,020
B. END FY 95	742	4209	2557	512	2543	5	36	70	347	11,021

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	74,595 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..	185,886
C. AUTHORIZATION NOT YET IN INVENTORY....................................	40,686
D. AUTHORIZATION REQUESTED IN THIS PROGRAM.............................	1,050
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	8,750
F. PLANNED IN NEXT THREE YEARS...	113,688
G. REMAINING DEFICIENCY..	233,197
H. GRAND TOTAL...	583,257

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
730	01330	Fire Station	1,050	03/89	01/91
		SUBTOTAL PROJECTS OVER $1M	1,050		
		TOTAL	1,050		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
179	Modified Record Fire Range	1,300
171	Applied Instruction Facility	3,400
214	Hardstand/Tactical Equipment Shop	4,050
	SUBTOTAL PROJECTS OVER $1M	8,750
	TOTAL	8,750
B. PLANNED NEXT THREE PROGRAM YEARS :		
171	Command Operations and Training Facility	34,000
171	MI TRNG CTR - PH II	16,000
	SUBTOTAL PROJECTS OVER $1M	50,000
	TOTAL	50,000

10. MISSION OR MAJOR FUNCTIONS:

The current mission of Fort Huachuca is to provide logistical, administrative, legal, financial, supply, and community service support to tenant organizations including an Army Major Field Command (US Army Information Systems Command, USAISC), an USAISC Major Subcommand Headquarter

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Huachuca Arizona

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

element (Information Systems Engineering Command), 11th Signal Brigade, an Army Major Class II Activity (US Army Electronic Proving Ground), a Major TRADOC Activity (Army Intelligence Center and School), several Department of Defense Activities to include the Joint Test Element of the Joint Tactical Command, Control and Communications Agency, area AMC, TRADOC and FORSCOM Activities, and approximately 20 other tenant elements.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	999,999
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Huachuca, Arizona	4. PROJECT TITLE Fire Station

5. PROGRAM ELEMENT 33196A	6. CATEGORY CODE 730	7. PROJECT NUMBER 1330	8. PROJECT COST ($000) Auth 1,050 Approp 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				695
Fire Station	SF	6,600	100.76	(665)
Information Systems	LS	-	-	(30)
Supporting Facilities				230
Electric Service	LS	-	-	(91)
Water, Sewer & Gas	LS	-	-	(10)
Paving, Walks, Curbs & Gutters	LS	-	-	(48)
Storm Drainage	LS	-	-	(6)
Site Improvement	LS	-	-	(33)
Information Systems	LS	-	-	(42)
Subtotal				925
Contingency (5.00%)				46
Total Contract Cost				971
Supervision, Inspection & Overhead (6.00%)				58
Total Request				1,029
Total Request (Rounded)				1,050
Installed Equipment - Other Appropriations				(44)

10. Description of Proposed Construction Construct a fire station with administration, kitchen/dining and dormitory areas, operations area, classroom and workshop. Supporting faciliites include utilities, information systems, fire protection, paving, driveways, parking, walks, curbs and gutters, and site improvements. Heating and cooling (10 tons) will be provided by a self-contained system. Access for the handicapped will be provided. Equipment supporting the central radio fire alarm receiving and communication center, energy monitoring and control system (EMCS) and the standby generator, will be relocated to the new facility as a part of this project.

11. REQUIREMENT: 12,000 SF ADEQUATE: None SUBSTANDARD: 3,865 SF

PROJECT: Construct a fire station. (Current Mission)

REQUIREMENT: This project is required to construct a centrally-located fire station with sufficient space for equipment, a communications center, training, kitchen-dining and living areas. Station will be a drive-through design with a small employee and customer parking area. The design will allow for a second company expansion at a later date.

CURRENT SITUATION: Main post fire station requirements are provided for in two facilities. Station Number 1 (3,865 SF) was built in 1934. It has two apparatus stalls, dispatch switchboard office, sleeping quarters,

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Huachuca, Arizona		
4. PROJECT TITLE Fire Station		5. PROJECT NUMBER 1330

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
kitchen-dining and living area, latrine, and offices for the chief, assistant chief, and inspectors. This station serves as the main fire station. Station Number 2 (7,502 SF) was built in 1941. This facility contains six stalls, extinguisher recharge room, hose drying and storage room, latrine, kitchen-dining and living area, and sleeping quarters. Station Number 1 will be replaced under this project. Equipment stalls in the existing Station Number 1 are too small to accommodate equipment; the new large ladder truck which should be located in the main fire station must be kept at Station Number 2, two miles away from the area where it is required for multi-story structures, and three pieces of equipment are kept outside. Kitchen, dining, living and training areas are outdated, and too small to accommodate one complete shift at any one time. Heating and cooling systems are inadequate; heat is provided by space heaters in each room and cooling is provided by window mounted evaporative coolers. The facility cannot be expanded due to its location adjacent to an historic area and road network. Other appropriate activities will backfill the facility upon completion of this project. There are no other suitable facilities on post which can be used.

IMPACT IF NOT PROVIDED: If this project is not provided, equipment required for protection of multi-story facilities will continue to have an excessively long response time. Fire equipment now located outdoors will have a higher than normal deterioration rate and personnel will continue to occupy an inadequate facility.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 90
(d) Design Complete Date .... Jan 91

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications .... ______

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Huachuca, Arizona		
4.PROJECT TITLE Fire Station		5.PROJECT NUMBER 1330

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(b) All Other Design Costs	205
(c) Total Cost	205
(d) Contract	6
(e) In-house	199

(4) Construction Start .... Jun 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	44
		TOTAL	44

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Arkansas		Pine Bluff Arsenal (AMC)				45
	23899	Detection Paper Facility		1,600	1,600	47
		SUBTOTAL Pine Bluff Arsenal PART I	$	1,600	1,600	
		* TOTAL MCA FOR Arkansas	$	1,600	1,600	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

3. INSTALLATION AND LOCATION Pine Bluff Arsenal Arkansas	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX .90

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	21	61	1199	0	0	0	0	0	11	1,292
B. END FY 95	19	59	1202	0	0	0	0	0	11	1,291

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	14,949 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	85,253
C. AUTHORIZATION NOT YET IN INVENTORY	51,774
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	1,600
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	12,800
F. PLANNED IN NEXT THREE YEARS	46,775
G. REMAINING DEFICIENCY	453,772
H. GRAND TOTAL	651,974

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
228	23899	Detection Paper Facility	1,600	01/89	05/90
		SUBTOTAL PROJECTS OVER $1M	1,600		
		TOTAL	1,600		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
218	Quality Evaluation Laboratory	12,800
	SUBTOTAL PROJECTS OVER $1M	12,800
	TOTAL	12,800
B. PLANNED NEXT THREE PROGRAM YEARS :		
216	Chemical Stockpile Disposal Facility	23,000
226	Consolidated Smoke Facility	20,000
141	ADP/OPS CENTER	3,050
	SUBTOTAL PROJECTS OVER $1M	46,050
800	STEAM LINE INSULATE	485
	SUBTOTAL PROJECTS $1M & LESS	485
	TOTAL	46,535

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Pine Bluff Arsenal Arkansas

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10. MISSION OR MAJOR FUNCTIONS:

To operate and maintain production, preproduction, and limited production facilities for the filling, loading, assembly, and manufacturing of assigned materiel; to receive, store, perform surveillance renovate, demilitarize and ship supplies and equipment for the Army and other Government agencies; to support research, development, engineering and environmental activities of other US Army Materiel Command (AMC) activities as required; to provide support as required to other US Army Armament, Munitions and Chemical Command (AMCCOM) installations; to perform chemical laboratory testing; to accomplish repair, maintenance, calibration and operational support for chemical defensive test equipment; to accomplish the disposal and demilitarization of chemical agents and munitions; to accomplish repair and maintenance of chemical defensive materiel; to accomplish the binary munitions program, and to provide administrative and logistical support services to tenant activities.

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11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	10,737
B. WATER POLLUTION	20,007
C. OCCUPATIONAL SAFETY AND HEALTH	1,387

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Pine Bluff Arsenal, Arkansas	4.PROJECT TITLE Detection Paper Facility

5.PROGRAM ELEMENT 72003A	6.CATEGORY CODE 228	7.PROJECT NUMBER 23899	8.PROJECT COST ($000) Auth 1,600 Approp 1,600

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,262
Detection Paper Facility	SF	16,000	78.60	(1,258)
Information Systems	LS	-	-	(4)
Supporting Facilities				161
Electric Service	LS	-	-	(22)
Water, Sewer & Gas	LS	-	-	(46)
Paving, Walks, Curbs & Gutters	LS	-	-	(48)
Storm Drainage	LS	-	-	(4)
Site Improvement	LS	-	-	(38)
Information Systems	LS	-	-	(3)
Subtotal				1,423
Contingency (5.00%)				71
Total Contract Cost				1,494
Supervision, Inspection & Overhead (6.00%)				90
Total Request				1,584
Total Request (Rounded)				1,600
Installed Equipment - Other Appropriations				(7,750)

10.Description of Proposed Construction Construct a paper manufacturing, impregnating, and processing plant. Supporting facilities include utilities, electric service, information systems, waste holding tank, fire protection and alarm systems, paving, apron, walks, storm drainage, security fencing and lighting, and site improvements. Heat will be provided from the self-contained boiler plant. Air conditioning (3 tons) will be provided by a self-contained unit. Mechanical ventilation: 16,000 CFM.

11. REQUIREMENT: 16,000 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a paper manufacturing facility. (New Mission)

REQUIREMENT: This project is required to provide a production facility for chemical detection paper (M9) for Department of Defense-wide use. M9 paper reacts in the presence of liquid agents. Worn by an individual, or attached to a vehicle or item of equipment, it alerts personnel to the presence of an agent and allows the individual to take prompt protective actions. This project will provide a unique national capability for meeting urgent current Defense-wide needs and serve as a national center of expertise in detection paper production.

CURRENT SITUATION: The United States is solely dependent on procurement of M9E2 (the paper component of M9) from a source outside the continental United

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION
Pine Bluff Arsenal, Arkansas

4. PROJECT TITLE Detection Paper Facility	5. PROJECT NUMBER 23899

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
States (OCONUS) --Italy, with actual M9 assembly accomplished by other subcontractors in Canada. The M9E2 manufacturer has serious production problems and cannot meet delivery requirements. There is a large backlog of M9 needed to meet current requirements: about two million units. Existing stocks are nearing the end of useful shelf life and are due for replacement. Continental United States (CONUS) production facilities are not available in either commercial or government sectors since annual production runs are too small for commercial interest.
IMPACT IF NOT PROVIDED: If this project is not provided, inadequate production now available cannot maintain current stockage levels. Existing stocks will exceed useful shelf life without replacement. Unavailability of detection paper will increase vulnerability of soldiers to chemical attack, with potential significant increase in numbers and severity of chemical casualties thus affecting mission accomplishment.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Status Quo Operations. Life cycle costs for each alternative were compared on a new present value basis, as calculated at a ten percent discount rate. New Construction ($12,189 K) is recommended, as more cost effective than Status Quo Operations ($24,163 K). The savings to investment ratio for this project is 2.39 with a discounted payback period of 4.63 years.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jan 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 90
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... May 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 101
(b) All Other Design Costs 29
(c) Total Cost 130
(d) Contract 0

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Pine Bluff Arsenal, Arkansas		
4.PROJECT TITLE Detection Paper Facility		5.PROJECT NUMBER 23899

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 130

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Process Equipment	OPA	91	7741
Information Sys Eq	OPA	91	9
		TOTAL	7,750

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
California		Fort Irwin (FORSCOM)				53
	21564	Hardstand/Tactical Equipment Shop		4,200	4,200	55
		SUBTOTAL Fort Irwin PART I	$	4,200	4,200	
		Fort Ord (FORSCOM)				59
	27343	Water Distribution System (Phase I)		7,400	7,400	61
		SUBTOTAL Fort Ord PART I	$	7,400	7,400	
		* TOTAL MCA FOR California	$	11,600	11,600	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Irwin California	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.36

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	592	3252	642	0	0	0	8	12	98	4,604
B. END FY 95	600	3231	670	0	0	0	8	12	98	4,619

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 636,182 AC

B. INVENTORY TOTAL AS OF 30 SEP 89......................	132,995
C. AUTHORIZATION NOT YET IN INVENTORY......................	11,141
D. AUTHORIZATION REQUESTED IN THIS PROGRAM......................	4,200
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM......................	21,750
F. PLANNED IN NEXT THREE YEARS......................	303,366
G. REMAINING DEFICIENCY......................	211,057
H. GRAND TOTAL......................	684,509

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
214	21564	Hardstand/Tactical Equipment Shop	4,200	09/86	09/90
		SUBTOTAL PROJECTS OVER $1M	4,200		
		TOTAL	4,200		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
441	General Purpose Warehouse	9,100
111	Heliport	11,000
214	Tactical Equipment Shop	1,650
	SUBTOTAL PROJECTS OVER $1M	21,750
	TOTAL	21,750
B. PLANNED NEXT THREE PROGRAM YEARS:		
912	Land Acquisition-National Training Center	100,000
111	AIRFIELD-NTC	27,000
	SUBTOTAL PROJECTS OVER $1M	127,000
	TOTAL	127,000

10. MISSION OR MAJOR FUNCTIONS:

The National Training Center (NTC) is an advanced collective training facility located at Fort Irwin, CA. Its mission is to provide advanced collective training opportunities to the task-organized elements of FORSCOM close-combat heavy brigades within the contex of the overall

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Irwin California

10. MISSION OR MAJOR FUNCTIONS: (... CONTINUE)

FORSCOM training strategy and IAW the training principles outlined in FM 25-100. The roles, relationships, and responsibilities of supporting Department of the Army agencies and MACOM are established by AR 350-50. Army training started 1 July 1981. Serves as the National Training Center (Fort Irwin is presently licensed to the State of California for National Guard use. Army training started 1 July 1981.)

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Irwin, California	4. PROJECT TITLE Hardstand/Tactical Equipment Shop

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 21564	8. PROJECT COST ($000) Auth 4,200 Approp 4,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,669
Tactical Equipment Shop	SF	12,663	107.64	(1,363)
Fuel Station	SF	50	160.00	(8)
Oil Storage	SF	750	69.33	(52)
Sentry House	SF	40	450.00	(18)
Maintenance Platform	SF	1,120	125.00	(140)
See Cost Estimates (Continued)				(1,088)
Supporting Facilities				1,109
Electric Service	LS	–	–	(185)
Water, Sewer & Gas	LS	–	–	(235)
Paving, Walks, Curbs & Gutters	LS	–	–	(32)
Storm Drainage	LS	–	–	(3)
Site Improvement	LS	–	–	(206)
Information Systems	LS	–	–	(448)
Subtotal				3,778
Contingency (5.00%)				189
Total Contract Cost				3,967
Supervision, Inspection & Overhead (6.00%)				238
Total Request				4,205
Total Request (Rounded)				4,200
Installed Equipment - Other Appropriations				(53)

10. Description of Proposed Construction Construct an organizational and direct support tactical equipment shop with 10-ton crane, dispatch office, oil house, a fuel dispensing point with tanks, maintenance platforms and hardstands. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, information systems, and site improvements. Heating will be provided by a self-contained system. Evaporative cooling: 26,000 CFM. The high cost of the supporting facility results from the US Army Information Systems Command (USAISC) requirement to provide information systems to this facility from the closest manhole connection 3,600 feet from the project. Extensions of the water, sewer, and electrical utilities are longer than normal as we are building utilities as we need them project by project and only what is absolutely necessary.

11. REQUIREMENT: 81,200 SF ADEQUATE: 43,200 SF SUBSTANDARD: 42,084 SF

PROJECT: Construct a tactical equipment shop and hardstand. (New Mission)

REQUIREMENT: This project is required to provide a consolidated tactical and engineer equipment repair and maintenance facility for the 87th Engineer Company in support of the Opposing Forces (OPFOR) operations at the National Training Center (NTC). This facility will house the direct support maintenance activities for 34 full-tracked tactical vehicles, 40 wheeled

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Irwin, California		
4.PROJECT TITLE Hardstand/Tactical Equipment Shop		5.PROJECT NUMBER 21564

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Fuel Dispensing	LS	-	-	107
Hardstand	SY	22,998	42.39	975
Information Systems	LS	-	-	6
			Total	1,088

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) vehicles, 34 trailers (3/4 ton through 40 ton), six bridges, armor vehicle launch scissors, C1 60 (60 foot length of span), and 18 engineer-type boats for a total of 132 major pieces of engineering equipment. There are 203 soldiers and eight officers assigned to this unit.

CURRENT SITUATION: This engineer company has been assigned to Fort Irwin to provide combat realism during field training of rotational troops. There are no facilities available on post to support this new unit. The maintenance of such a large variety of equipment requires stockage of 410 separate types of repair parts at the organizational level and 275 types at the direct support level. The number of publications and other managerial documents required in the maintenance of this equipment pool is considerable and requires a permanent facility to consolidate all engineer repair and maintenance functions. Routine services and required repair of the assigned equipment cannot be properly accomplished outdoors in the extremely high temperatures of the desert environment during the summer, wind and sand storms throughout the entire year, cold and wet weather during the winter. Adequate permanent facilities are not available at Fort Irwin to support this mission.

IMPACT IF NOT PROVIDED: If this project is not provided, the 87th Engineer Company will not have an adequate and functional facility to perform maintenance and repair to their vehicles and will not be able to effectively perform their mission in support of the NTC. The 87th Engineer Company troops are in the field approximately 238 days annually performing their mission. Nonavailability of equipment due to maintenance must be held to a minimum in order to provide realistic and effective support to the NTC. Without this project, engineer maintenance will continue to be performed on a dusty, sandy area in the desert because the installation has no facility. Additionally, environmental problems are great, and troop morale suffers due to having to perform maintenance operations in a hot and dusty environment.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Irwin, California

4. PROJECT TITLE Hardstand/Tactical Equipment Shop	5. PROJECT NUMBER 21564

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a)	Design Start Date	Sep 86
(b)	Percent Complete As Of 01 January 90 (BDGT YR)	90
(c)	Percent Complete As Of 01 October 90 (PROG YR)	100
(d)	Design Complete Date	Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a)	Production of Plans and Specifications	172
(b)	All Other Design Costs	259
(c)	Total Cost	431
(d)	Contract	222
(e)	In-house	209

(4) Construction Start May 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	53
		TOTAL	53

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1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Ord California	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.25

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1615	13265	2446	16	194	0	25	127	101	17,789
B. END FY 95	1636	13384	2827	6	166	0	25	127	101	18,272

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 28,058 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89	352,494
C. AUTHORIZATION NOT YET IN INVENTORY	38,910
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	7,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	25,000
F. PLANNED IN NEXT THREE YEARS	202,875
G. REMAINING DEFICIENCY	168,828
H. GRAND TOTAL	795,507

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
844	27343	Water Distribution System (Phase I)	7,400	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M	7,400		
		TOTAL	7,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
740	Physical Fitness Training Center	11,600
844	Water Distribution System Addition	13,400
	SUBTOTAL PROJECTS OVER $1M	25,000
	TOTAL	25,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
171	RESERVE TRAINING FAC	17,832
214	Vehicle Maintenance Facility	17,000
141	Barracks	14,826
	SUBTOTAL PROJECTS OVER $1M	49,658
	TOTAL	49,658

10. MISSION OR MAJOR FUNCTIONS:

Support and training of an infantry division (light), Silas B. Hays Army Community Hospital, and nondivisional units. Support for tenant, satellite, and Reserve Components activities.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Ord California

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	2,000
B. WATER POLLUTION	3,632
C. OCCUPATIONAL SAFETY AND HEALTH	67,662

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Ord, California	4.PROJECT TITLE Water Distribution System (Phase I)

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 844	7.PROJECT NUMBER 27343	8.PROJECT COST ($000) Auth 7,400 Approp 7,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,400
Regional Water System Ph I	LS	-	-	(7,400)
Subtotal				7,400
Total Contract Cost				7,400
Total Request				7,400
Total Request (Rounded)				7,400
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Purchase part of a regional water supply system, as the first phase of a two-phase regional water supply project to provide a dependable long-term potable water supply for Fort Ord and the cities of Marina and Castroville. The system will be sized to provide an initial (1991) supply of 12,600 acre-feet (ac-ft). This includes 8,200 ac-ft to Fort Ord, 2,900 ac-ft to Marina, and 1,500 ac-ft to other users. It also includes re-regulation of existing upstream reservoirs in the Salinas Valley to insure a sustained recharge of the groundwater in the dispersed well area. Fort Ord's share of costs includes a portion of the construction cost of the potable water system and an "existing system capacity fee" for access to existing facilities necessary for the delivery of water.

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: 1 EA

PROJECT: Purchase part of a regional water supply system. (Current Mission)

REQUIREMENT: This project is required to provide a long-term, dependable supply of potable water to Fort Ord. Fort Ord's current water supply from groundwater has already been severely contaminated by seawater. This contamination is expected to affect all remaining potable wells in the near future.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Ord, California		
4. PROJECT TITLE Water Distribution System (Phase I)		5. PROJECT NUMBER 27343

11. REQUIREMENT: (Continued)

CURRENT SITUATION: Currently the Fort Ord water system is supplied by groundwater which unfortunately is rapidly becoming contaminated by seawater. Of the 18 domestic water supply wells, all but five have chloride levels exceeding Federal Standards for drinking water due to seawater incursion. Local communities are experiencing a similar failure of their well fields. Continued extraction of water from those wells which are still potable will eventually force their closure due to chloride contamination. The best plan of action is to replace this limited water supply as soon as possible and preserve this well field for future emergency needs and uses. This will require the development of a regional water supply a safe distance upstream from the intruded area to supply Fort Ord and the participating communities of Marina and Castroville. During the last three years Fort Ord has participated in a Seawater Intrusion Committee, which is chaired by the manager of Monterey County Flood Control and Water Conservation District.

IMPACT IF NOT PROVIDED: If this project is not provided, the chloride concentrations in the groundwater will increase due to seawater incursion into the well field, with the subsequent contamination of all existing potable wells. At that time Fort Ord will be without a potable source of water barring the adoption of an alternative source. Sacramento District, Corps of Engineers, completed a study in 1986 entitled "Long Range Water Supply Development for Fort Ord, California," which identifies potential solutions to the water supply problems of Fort Ord. While this study indicates that this project is the most cost effective solution, several other more costly alternatives exist. These other alternatives include construction of a dam and associated facilities, the recycling of wastewater, and the desalinization of seawater.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing a Regional Well Field to the San Clemente Dam and Desalinization. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. Regional Well Field ($20,961 K) is recommended, as more cost effective than San Clemente Dam ($61,699 K) and Desalinization ($60,887 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... N/A

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A

(c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Ord, California		
4. PROJECT TITLE Water Distribution System (Phase I)		5. PROJECT NUMBER 27343

12. SUPPLEMENTAL DATA: (Continued)
A. Estimated Design Data: (Continued)
(1) Status: (Continued)
(d) Design Complete Date .... N/A

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	460
(b) All Other Design Costs	164
(c) Total Cost	624
(d) Contract	468
(e) In-house	156

(4) Construction Start .... N/A
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Colorado		Fort Carson (FORSCOM)			67
	3663	Aviation Unit Maintenance Hangar	11,400	11,400	69
	9020	Tank Gunnery Range Upgrade	5,600	5,600	72
	16829	Tactical Equipment Shop	6,500	6,500	75
		SUBTOTAL Fort Carson PART I	$ 23,500	23,500	
		Falcon Air Force Base (USAF)			79
	31074	Satellite Control Certification Facility	1,450	1,450	81
		SUBTOTAL Falcon Air Force Base PART I	$ 1,450	1,450	
		* TOTAL MCA FOR Colorado	$ 24,950	24,950	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Carson Colorado	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.01

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1846	17651	2211	10	154	0	21	66	76	22,035
B. END FY 95	1748	14430	2518	7	152	0	21	66	76	19,018

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	137,391 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	353,278
C. AUTHORIZATION NOT YET IN INVENTORY....................................	19,077
D. AUTHORIZATION REQUESTED IN THIS PROGRAM................................	23,500
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	13,450
F. PLANNED IN NEXT THREE YEARS..	186,432
G. REMAINING DEFICIENCY...	583,935
H. GRAND TOTAL..	1,179,672

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
211	03663	Aviation Unit Maintenance Hangar	11,400	01/88	06/90
179	09020	Tank Gunnery Range Upgrade	5,600	07/85	06/90
214	16829	Tactical Equipment Shop	6,500	03/89	07/90
		SUBTOTAL PROJECTS OVER $1M	23,500		
		TOTAL	23,500		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
171	Range Control Facility	3,650
800	Energy Monitoring and Control System	1,050
214	Hardstand/Tactical Equipment Shop Addition	6,200
171	Flight Simulator Building	2,550
	SUBTOTAL PROJECTS OVER $1M	13,450
	TOTAL	13,450
B. PLANNED NEXT THREE PROGRAM YEARS :		
219	FACILITIES ENGINEERING FAC	25,108
	SUBTOTAL PROJECTS OVER $1M	25,108
	TOTAL	25.108

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Carson Colorado

10. MISSION OR MAJOR FUNCTIONS:
Port Carson's principal mission is to operate and maintain the installation for all units and commands assigned, including the 4th Infantry Division (Mechanized). Fort Carson is a "Type B" installation, designating the fort as the permanent location of an active Army division, where the division commander also commands the installation. Basic elements of the current mission include: (1) command, operation and administration of Fort Carson's resources to accomplish all assigned missions and support of tenant activities, (2) command of all assigned and attached units; organize and train all units to ensure combat readiness; (3) provide command and control for Fort Douglas, Utah and its subordinate elements and command and control of the Pinon Canyon maneuver site.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Carson, Colorado	4.PROJECT TITLE Aviation Unit Maintenance Hangar

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 211	7.PROJECT NUMBER 3663	8.PROJECT COST ($000) Auth 11,400 Approp 11,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				8,956
Helicopter Maint. Facility	SF	68,060	97.59	(6,642)
Airfield PCC Pavement	SY	13,165	27.65	(364)
Airfield Bituminous Pavement	SY	73,456	24.15	(1,774)
Airfield Subdrain/Stormdrain	LF	4,118	23.31	(96)
AFFF Waste Drain	LF	1,090	66.06	(72)
Information Systems	LS	-	-	(8)
Supporting Facilities				1,375
Electric Service	LS	-	-	(98)
Water, Sewer & Gas	LS	-	-	(479)
Paving, Walks, Curbs & Gutters	LS	-	-	(289)
Storm Drainage	LS	-	-	(18)
Site Improvement (434) Demolition (29)	LS	-	-	(463)
Information Systems	LS	-	-	(28)
Subtotal				10,331
Contingency (5.00%)				517
Total Contract Cost				10,848
Supervision, Inspection & Overhead (6.00%)				651
Total Request				11,499
Total Request (Rounded)				11,400
Installed Equipment - Other Appropriations				(63)

10.Description of Proposed Construction Construct an aviation unit maintenance facility (AVUM) for an attack helicopter battalion. The facility will include eight aircraft maintenance bays, engine, rotor, sheet metal, armament, avionics and electronics shops, supply areas, tool room, production control and quality assurance offices, paint, petroleum, oils, and lubricants (POL) storage, work rooms, flight operations, briefing and planning rooms, a flight safety office, an aviation life support equipment office and shop, technical library, and a class "A" vault for storage of weapons systems. Two 10-ton overhead hoists and a fire sprinkler deluge system will be included in the hangar. Also construct a parking ramp for 28 aircraft, four maintenance operational check pads, taxiways and an aircraft washrack. Supporting facilities include utilities, electric service, storm drainage, paving, walks, curbs and gutters, parking, information systems, and site improvements. Special foundation design is required due to the expansive clay soils. Heating will be provided by an individual gas-fired boiler. Mechanical ventilation: 126,000 CFM.

11. REQUIREMENT: 338,604 SF ADEQUATE: 165,219 SF SUBSTANDARD: 12,000 SF

PROJECT: Construct an aviation unit maintenance hangar for an attack helicopter battalion at Butts Army Airfield. (Current Mission)

REQUIREMENT: This project is required to provide adequate aircraft

1. COMPONENT
ARMY

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2. DATE
JAN 90

3. INSTALLATION AND LOCATION
Fort Carson, Colorado

4. PROJECT TITLE
Aviation Unit Maintenance Hangar

5. PROJECT NUMBER
3663

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) maintenance space for an attack helicopter battalion equipped with state-of-the-art helicopters (18 AH-64s, 3 UH-60s, 13 OH-58Ds).

CURRENT SITUATION: Fort Carson is critically short of aircraft maintenance and parking ramp space for the currently assigned aircraft. The shortfall will become even more critical after stationing of the planned new generation of helicopters. At present, aircraft maintenance activities are performed in two permanent hangars (total 165,219 SF) and two small metal equipment-in-place buildings (total 12,000 SF). The adequate permanent facilities provide only 49 percent of the aircraft maintenance space to support the aircraft inventory planned for Fort carson by FY 94. Safety is currently a serious issue; equipment and airframes currently impinge on the safety setbacks at the perimeter areas of hangar floors. Personnel have occasionally been injured by walking into obstructions in these safety setbacks. Aircraft are positioned so close together during maintenance that personnel find it difficult to pass between aircraft. Aircraft have been damaged by contact with other aircraft during ground handling. Severe weather (i.e., winds exceeding 60 miles per hour and large hail) has caused approximately $2.5 million dollars in damage to aircraft since 1981. Accordingly, as many aircraft as possible are hangared each night and when severe weather conditions are forecast.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a progressive adverse impact on the quality and quantity of aircraft maintenance performed at Fort Carson, personnel will be further exposed to industrial safety hazards, and ever more expensive aircraft will continue to be damaged by winds and weather. A further degradation of the maintenance effort will occur with fielding of the larger, more complex four-bladed helicopters. These new aircraft require an extremely high level of maintenance quality which cannot be met when the aircraft are packed together in inadequately sized facilities. The quantity of maintenance which must be accomplished, measured in productivity in elapsed time, will also be adversely affected. The considerable amount of helicopter ground-handling in and out of hangars to position the aircraft will slow the maintenance effort and result in extended "down time" for the aircraft.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Third Party Lease. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($10,041 K) is recommended as more cost effective than Third Party Lease ($12,148 K).

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391C

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Carson, Colorado		
4. PROJECT TITLE Aviation Unit Maintenance Hangar		5. PROJECT NUMBER 3663

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jan 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jun 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 620
(b) All Other Design Costs 190
(c) Total Cost 810
(d) Contract 0
(e) In-house 810

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	53
TV Monitor	OPA	91	10
		TOTAL	63

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Carson, Colorado	4.PROJECT TITLE Tank Gunnery Range Upgrade

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 179	7.PROJECT NUMBER 9020	8.PROJECT COST ($000) Auth 5,600 Approp 5,600

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,037
Range Facilities	LS	-	-	(2,001)
Range Electric Service	LS	-	-	(794)
Range Water & Sewer Service	LS	-	-	(76)
Range Paving & Walks	LS	-	-	(1,088)
Range Storm Drainage	LS	-	-	(186)
Range Site Work	LS	-	-	(892)
Subtotal				5,037
Contingency (5.00%)				252
Total Contract Cost				5,289
Supervision, Inspection & Overhead (6.00%)				317
Total Request				5,606
Total Request (Rounded)				5,600
Installed Equipment - Other Appropriations				(522)

10.Description of Proposed Construction Modernize a tank gunnery range. Primary facilities include all construction within the perimeter of the range complex and consist of three moving tank targets, 15 stationary tank targets, 12 stationary personnel targets, loading platforms, moving target storage bunkers, latrine, two maintenance tent pads with pipe frames, a control tower, 20 tent pads with frames, concrete hull down positions, a helicopter landing pad, gravel tank trails,and gravel drive and walk areas. Heating will be provided by individual propane fired gas heaters. Supporting facilities costs are zero because there is no construction outside the perimeter of the range complex.

11. REQUIREMENT: 4 EA ADEQUATE: None SUBSTANDARD: 7 EA

PROJECT: Upgrade Range 109 with new targetry and support facilities. (Current Mission)

REQUIREMENT: This project is required to provide training targetry for the new improved night sights on vehicles. Fort Carson needs to reconfigure the range targetry to provide for firing of the M1 Tank and Bradley Vehicle as well as providing a cost effective range for Fort Carson's existing fleet of M60A3 tanks.

CURRENT SITUATION: The present moving target system is old, unreliable and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Carson, Colorado		
4. PROJECT TITLE Tank Gunnery Range Upgrade		5. PROJECT NUMBER 9020

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
results in many hours of lost training time due to breakdowns. In addition, the existing target layout cannot satisfy the new training requirements. The present stationary target positions are not permanent in nature and use battery operated mechanisms. The batteries are expensive, require daily changing and are not satisfactory when using thermal targets. The range is a dust bowl, used day and night, yet provides no provision for soldiers to sleep or clean-up. Currently, the range is used by Fort Carson's nine tank battalions and National Guard units training at Fort Carson. The range is used on the average of four to ten days at a time by each unit. Because of the dusty day and night use, soldiers should be afforded the use of showers and tent pads to enhance training conditions. Range 109 is used approximately 190 days per year.
IMPACT IF NOT PROVIDED: If this project is not provided, many hours of training time will be lost due to substandard moving targets and changing of batteries on stationary targets. Training of tank crews will be less than desirable due to inadequate training hardware and support facilities that would provide a complete training environment.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Jul 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)	95
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jun 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	290
(b) All Other Design Costs	75
(c) Total Cost	365
(d) Contract	250
(e) In-house	115

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Carson, Colorado		
4. PROJECT TITLE Tank Gunnery Range Upgrade		5. PROJECT NUMBER 9020

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Dec 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Target Mechanisms	OPA	91	522
		TOTAL	522

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Carson, Colorado	4. PROJECT TITLE Tactical Equipment Shop

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 16829	8. PROJECT COST ($000) Auth 6,500 Approp 6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				4,529
Vehicle Maintenance Facility	SF	30,451	90.50	(2,756)
Fuel Storage Tanks/Islands	LS	-	-	(152)
POL Storage Facility	SF	620	72.58	(45)
Deployment Equipment Storage	SF	2,861	50.33	(144)
Guard House	SF	60	166.67	(10)
See Cost Estimates (Continued)				(1,422)
Supporting Facilities				1,352
Electric Service	LS	-	-	(236)
Water, Sewer & Gas	LS	-	-	(69)
Paving, Walks, Curbs & Gutters	LS	-	-	(81)
Storm Drainage	LS	-	-	(217)
Site Improvement (530) Demolition (190)	LS	-	-	(720)
Information Systems	LS	-	-	(29)
Subtotal				5,881
Contingency (5.00%)				294
Total Contract Cost				6,175
Supervision, Inspection & Overhead (6.00%)				371
Total Request				6,546
Total Request (Rounded)				6,500
Installed Equipment - Other Appropriations				(53)

10. Description of Proposed Construction Construct a standard-design tactical equipment shop with a 7-1/2 ton overhead crane. The complex will have maintenance and operations space, fuel storage and dispensing facilities with a fuel station building, general storage, general and compact item repair space, deployment equipment storage and two sentry stations. Other facilities include organizational and non-organizational vehicle parking areas, and an oil storage building. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, storm drainage, information systems, waste oil storage tank, and site improvements including special foundation due to expansive clay soils. Heating will be provided by a self-contained gas-fired unit. Mechanical ventilation: 70,000 CFM. Demolish nine buildings (13,122 SF).

11. REQUIREMENT: 776,486 SF ADEQUATE: 403,886 SF SUBSTANDARD: 164,110 SF

PROJECT: Construct a standard-design tactical equipment shop. (Current Mission)

REQUIREMENT: This project is required to provide adequate maintenance, storage, operations and parking space for a signal battalion.

CURRENT SITUATION: All maintenance activities are housed in temporary buildings. The Direct Support Communication Section has two small wooden

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Carson, Colorado

4. PROJECT TITLE Tactical Equipment Shop	5. PROJECT NUMBER 16829

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Org. Parking Paving	SY	26,273	48.45	1,273
Building Support Paving	SY	3,672	38.40	141
Information Systems	LS	-	-	8
			Total	1,422

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

buildings that have inadequate lighting, work space, and building insulation to support 211 vehicles with 224 sophisticated high dollar communications systems. Most of the facilities are tin sheds and wood shacks. The motor park consists of dirt or sparse gravel and is not suitable for year round organizational maintenance. The motor repair bays have proven to be inadequate to handle the service demand of four companies and the repairs of organizational maintenance sections. Most services have to be rushed and are frequently found to be incomplete. Communication services and direct support equipment repair are conducted out in the open, which creates a bad situation in adverse weather. These conditions have been compounded by the arrival of 28 more vehicles and numerous major communications and electronic systems since 1985.

IMPACT IF NOT PROVIDED: If this project is not provided, the operational readiness and quality of maintenance operations of the signal battalion will continue to be adversely affected. These unsatisfactory facilities will continue to have a negative impact on the material and manpower resources and maintenance funds spent on trying to improve the existing dilapidated maintenance facilities.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Mar 89

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Jul 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Carson, Colorado		
4.PROJECT TITLE Tactical Equipment Shop		5.PROJECT NUMBER 16829

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(b) Where Design Was Most Recently Used N/A

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	380
(b) All Other Design Costs	145
(c) Total Cost	525
(d) Contract	50
(e) In-house	475

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	53
		TOTAL	53

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Falcon Air Force Base Colorado	4. COMMAND US Air Force	5. AREA CONSTRUCTION COST INDEX .97

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..........	0
C. AUTHORIZATION NOT YET IN INVENTORY..........	710
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..........	1,450
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........	0
F. PLANNED IN NEXT THREE YEARS..........	0
G. REMAINING DEFICIENCY..........	0
H. GRAND TOTAL..........	2,160

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
131	31074	Satellite Control Certification Facility	1,450	05/89	05/90
		SUBTOTAL PROJECTS OVER $1M	1,450		
		TOTAL	1,450		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)

A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE

B. PLANNED NEXT THREE PROGRAM YEARS : NONE

10. MISSION OR MAJOR FUNCTIONS:

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Falcon Air Force Base, Colorado	4. PROJECT TITLE Satellite Control Certification Facility

5. PROGRAM ELEMENT 13121A	6. CATEGORY CODE 131	7. PROJECT NUMBER 31074	8. PROJECT COST ($000) Auth 1,450 Approp 1,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,240
PACCE Facility	SF	4,150	296.39	(1,230)
Information Systems	LS	-	-	(10)
Supporting Facilities				84
Electric Service	LS	-	-	(8)
Water, Sewer & Gas	LS	-	-	(9)
Paving, Walks, Curbs & Gutters	LS	-	-	(14)
Storm Drainage	LS	-	-	(5)
Site Improvement	LS	-	-	(11)
Information Systems	LS	-	-	(20)
EMCS Connection	LS	-	-	(17)
Subtotal				1,324
Contingency (5.00%)				66
Total Contract Cost				1,390
Supervision, Inspection & Overhead (6.00%)				83
Total Request				1,473
Total Request (Rounded)				1,450
Installed Equipment - Other Appropriations				(19,384)

10. Description of Proposed Construction Construct a platform and control certification element (PACCE) facility to include an equipment and operations area, administration and training area, storage, break area and uninterruptable power system (UPS) room. Install an intrusion detection system (IDS). Connection to energy monitoring and control system (EMCS). Construction will meet sensitive compartmented information facility (SCIF) standards. In addition, the equipment and operations area and the UPS area will be high altitude electromagnetic pulse (HEMP) shielded. Exterior surfaces will match those of existing Falcon Air Force Base (FAFB) facilities, utilizing identified architectural design standards. Supporting facilities include utilities, electric service, walks, curbs and gutters, lightning protection, fire protection and alarms, information systems, fuel storage tank, and site improvements. Heating will be provided by a self-contained unit using liquid petroleum gas (LPG) from a base-wide central storage distribution system. Air conditioning (17 tons) will be provided by self-contained system.

11. REQUIREMENT: 6,250 SF ADEQUATE: None SUBSTANDARD: 2,100 SF

PROJECT: Construct a Platform and Control Certification Element (PACCE) building. (Current Mission)

REQUIREMENT: This project is required to provide a PACCE facility for the

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Falcon Air Force Base, Colorado		
4. PROJECT TITLE Satellite Control Certification Facility		5. PROJECT NUMBER 31074

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
US Army Space Command (USASC), in support of a Joint Chiefs of Staff (JSC) directed, classified mission. This facility will certify operators and maintainers on mission-unique satellite control system equipment. This project must be located at FAFB to be connected to existing facilities, co-location of the USASC Headquarters, to maintain certification continuity and to significantly reduce costs by sharing the 2nd Space Wing's mission control center facilities. No adequate existing facility is available to support this mission.

CURRENT SITUATION: The JCS directed, classified mission is currently conducted in an interim facility at FAFB. This building does not have sufficient space for housing the mission required communications and electronic equipment. Also the existing building does not have adequate space for the assigned personnel in the administrative, training, and maintenance areas. The security of the mission requires a building with HEMP shielding. The interim building only has TEMPEST shielding.

IMPACT IF NOT PROVIDED: If this project is not provided, the USASC will be unable to support a Joint Chiefs of Staff directed, classified mission.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:
- (1) Status:
  - (a) Design Start Date .... May 89
  - (b) Percent Complete As Of 01 January 90 (BDGT YR) 50
  - (c) Percent Complete As Of 01 October 90 (PROG YR) 100
  - (d) Design Complete Date .... May 90
- (2) Basis:
  - (a) Standard or Definitive Design - Yes ___ No X
  - (b) Where Design Was Most Recently Used N/A
- (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
  - (a) Production of Plans and Specifications 80
  - (b) All Other Design Costs 40
  - (c) Total Cost 120
  - (d) Contract 90
  - (e) In-house 30

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Falcon Air Force Base, Colorado

4. PROJECT TITLE Satellite Control Certification Facility	5. PROJECT NUMBER 31074

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Nov 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
UPS System	OPA	91	122
UPS Installation	OPA	91	10
ISCE Primary, Instl	OPA	91	19162
ISCE Primary, EIP	OPA	91	35
CCTV	OPA	91	35
Fuel Storage Tank	OPA	91	20
		TOTAL	19,384

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Georgia		Fort Benning (TRADOC)				87
	2288	Recreation Center		3,000	3,000	89
	4629	Tactical Equipment Shop		4,950	4,950	92
	31966	Indoor Firing Range		2,930	2,930	95
		SUBTOTAL Fort Benning PART I	$	10,880	10,880	
		Fort Stewart (FORSCOM)				99
	2439	Child Development Center		1,650	1,650	101
		SUBTOTAL Fort Stewart PART I	$	1,650	1,650	
		* TOTAL MCA FOR Georgia	$	12,530	12,530	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Port Benning Georgia	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX 80

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1629	11420	4731	2075	10935	1	46	79	15	30,931
B. END FY 95	1602	11260	4708	1890	10414	0	46	79	15	30,014

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE	169,292 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	419,183
C. AUTHORIZATION NOT YET IN INVENTORY	125,265
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	10,880
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	2,800
F. PLANNED IN NEXT THREE YEARS	101,632
G. REMAINING DEFICIENCY	987,788
H. GRAND TOTAL	1,647,548

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
740	02288	Recreation Center	3,000	09/83	10/87
214	04629	Tactical Equipment Shop	4,950	09/85	05/90
171	11966	Indoor Firing Range	2,930	02/90	09/90
		SUBTOTAL PROJECTS OVER $1M	10,880		
		TOTAL	10,880		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
800	Energy Monitoring and Control System	1,150
171	General Instruction Facility	1,650
	SUBTOTAL PROJECTS OVER $1M	2,800
	TOTAL	2,800
B. PLANNED NEXT THREE PROGRAM YEARS		
721	Barracks	21,550
218	DS/GS FIELD MNT FAC, PH I	15,000
	SUBTOTAL PROJECTS OVER $1M	38,550
	TOTAL	38,550

10. MISSION OR MAJOR FUNCTIONS:

Provides support and facilities for the U.S. Army Infantry Center and School, major combat and combat support forces, Martin U.S. Army Hospital, other tenant and satellited activities and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Benning Georgia

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

units, and Reserve Components Training.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Benning, Georgia	4.PROJECT TITLE Recreation Center

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 740	7.PROJECT NUMBER 2288	8.PROJECT COST ($000) Auth 3,000 Approp 3,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,914
Recreation Center	SF	29,880	62.68	(1,873)
Troop Walkways	SY	2,079	17.32	(36)
Information System	LS	–	–	(5)
Supporting Facilities				777
Electric Service	LS	–	–	(36)
Water, Sewer & Gas	LS	–	–	(26)
Steam, Chilled Water & Heat Distribution	LS	–	–	(11)
Paving, Walks, Curbs & Gutters	LS	–	–	(151)
Storm Drainage	LS	–	–	(46)
Site Improvement	LS	–	–	(476)
Information Systems	LS	–	–	(16)
EMCS Tie In	LS	–	–	(15)
Subtotal				2,691
Contingency (5.00%)				135
Total Contract Cost				2,826
Supervision, Inspection & Overhead (6.00%)				170
Total Request				2,996
Total Request (Rounded)				3,000
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct a recreation center. Connect to the energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, fire protection and alarm systems, storm drainage, signage, information systems, and site improvements. Supporting facility costs are high due to extensive soil removal and replacement due to unsuitable material on site. Heating and air conditioning (119 tons) will be provided by an existing central plant. Access for the handicapped will be provided.

11. REQUIREMENT: 59,600 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a recreation center. (Current Mission)

REQUIREMENT: This project is required to provide basic trainees and cadre personnel in the Basic Training complex (planned population 10,000) a place for wholesome recreation during off-duty hours. The new facility will provide space for recreational and social programs such as video tapes, television events, dances, table games, and large group activities and administration.

CURRENT SITUATION: No recreation center exists at the Basic Training complex located at Sand Hill (which is isolated from community facilities elsewhere on Fort Benning). Only one temporary and one permanent gymnasium are presently available for more than 8,000 personnel currently billeted in

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Benning, Georgia		
4.PROJECT TITLE Recreation Center		5.PROJECT NUMBER 2288

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
Sand Hill. Two World War II temporary recreation buildings totaling 4,660 SF have been diverted for classroom and storage space. The nearest buildings that cater to the basic trainee are enlisted service clubs, sized for approximately 100 users, located in World War II facilities five and one-half miles distant in the Harmony Church area. Since the basic trainee has no private vehicle for transportation, the opportunity for a trainee to gain access to the Harmony Church facility is greatly reduced. The Harmony Church facility is remote from the Sand Hill training area, inadequate in size and quality to meet the needs of the trainees.
IMPACT IF NOT PROVIDED: If this project is not provided, adequate and necessary recreational facilities will continue to be unavailable to basic trainees and service enlisted personnel. There are no other facilities available that can be used for recreation. Without a break from the hard grind of training, the morale and performance of new recruits could suffer.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Sep 83
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Oct 87

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 105
(b) All Other Design Costs 174
(c) Total Cost 279
(d) Contract 194
(e) In-house 85

(4) Construction Start .... Feb 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benning, Georgia		
4. PROJECT TITLE Recreation Center		5. PROJECT NUMBER 2288

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Benning, Georgia	4. PROJECT TITLE Tactical Equipment Shop

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 214	7. PROJECT NUMBER 4629	8. PROJECT COST ($000) Auth 4,950 Approp 4,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,245
Mod/Expand Veh Maint Bldgs	SF	23,292	39.00	(908)
Deployment Storage	SF	3,500	31.71	(111)
Oil House	SF	540	20.37	(11)
Pump/Control/Latrine Bldg	SF	120	66.67	(8)
Scheduled Maintenance Facility	SF	7,980	114.29	(912)
See Cost Estimates (Continued)				(1,295)
Supporting Facilities				1,196
Electric Service	LS	-	-	(332)
Water, Sewer & Gas	LS	-	-	(105)
Steam, Chilled Water & Heat Distribution	LS	-	-	(52)
Paving, Walks, Curbs & Gutters	LS	-	-	(177)
Storm Drainage	LS	-	-	(122)
Site Improvement (88) Demolition (279)	LS	-	-	(367)
Information Systems	LS	-	-	(6)
EMCS Tie In	LS	-	-	(35)
Subtotal				4,441
Contingency (5.00%)				222
Total Contract Cost				4,663
Supervision, Inspection & Overhead (6.00%)				280
Total Request				4,943
Total Request (Rounded)				4,950
Installed Equipment - Other Appropriations				(14)

10. Description of Proposed Construction Upgrade, modernize, and expand four substandard tactical vehicle maintenance shops. Install an intrusion detection system (IDS). Construct a deployment storage building for five companies, oil house, combination pump house, control building and latrines, underground fuel storage tanks, fuel pumps with islands and canopy over pumps and refueling area, scheduled maintenance facility, isolated petroleum, oils, and lubricants (POL) (refueling tankers) vehicle parking, and tactical vehicle hardstand (includes temporary parking area during construction phasing). Connection to energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, walks, curbs and gutters, fencing and gates, security lighting, information systems, heat transmission lines, fire protection and alarm systems, storm drainage, parking, gravel storage area, and site improvements with asbestos removal. Air conditioning (10 tons) for the administration area only will be provided by a self-contained system. Heating will be provided from the central heat plant. Demolish one building (192 SF) and substandard asphalt and concrete pavement, curbs and gutters, and underground fuel tanks with pumps. Support facility costs are high because of extensive asphalt and concrete demolition.

11. REQUIREMENT: 407,621 SF ADEQUATE: 226,240 SF SUBSTANDARD: 279,919 SF

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benning, Georgia		
4. PROJECT TITLE Tactical Equipment Shop		5. PROJECT NUMBER 4629

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Fuel Island Canopy & Hardstand	SF	4,500	38.00	171
Fuel Pumps	EA	8	2,499	20
Fuel Tanks (UG)	GA	35,000	1.49	52
Tactical Vehicle Hardstand	SY	27,570	29.31	808
POL Vehicle Parking	SY	888	30.41	27
Tactical Vehicle Parking	SY	6,933	30.15	209
Information Systems	LS	-	-	8
			Total	1,295

PROJECT: Upgrade and expand four tactical equipment shops and a deployment storage building. (Current Mission)

REQUIREMENT: This project is required to meet the facility needs of a heavy mechanized infantry brigade. This need is the direct result of the unit's reconfiguration by mechanizing one field artillery battalion.

CURRENT SITUATION: At present, Fort Benning has no adequate maintenance facility or concrete hardstand available to meet the needs of a mechanized field artillery battalion within a heavy mechanized infantry brigade. The battalion's current facilities consist of four maintenance shops that are inadequate in bay size to service the new equipment; the 155 mm self-propelled medium howitzer cannot physically fit within the maintenance bays and provide the necessary clearances around the vehicle to perform maintenance. Also, the vehicle hardstand is entirely asphalt and cannot accept the weight or abuse from the new track vehicles. This asphalt hardstand will be replaced by this project.

IMPACT IF NOT PROVIDED: If this project is not provided, the unit's existing undersized facility in the Kelley Hill area of the installation will continue to be utilized, resulting in a cramped maintenance environment and constant repairs to the asphalt hardstand destroyed by track vehicles. Some maintenance work will have to be performed outside, weather permitting.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Sep 85

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 40

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Benning, Georgia

4. PROJECT TITLE Tactical Equipment Shop	5. PROJECT NUMBER 4629

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(d) Design Complete Date .... May 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications	225
(b) All Other Design Costs	25
(c) Total Cost	250
(d) Contract	100
(e) In-house	150

(4) Construction Start .... Feb 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	6
Information Sys Eq	OPA	91	8
		TOTAL	14

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Benning, Georgia	4.PROJECT TITLE Indoor Firing Range

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 171	7.PROJECT NUMBER 31966	8.PROJECT COST ($000) Auth 2,930 Approp 2,930

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,457
Indoor Firing Range	SF	23,400	95.20	(2,228)
Building Conversion to Range	SF	3,380	45.00	(152)
Information Systems	LS	-	-	(2)
Installation of Target Systems	LS	-	-	(75)
Supporting Facilities				175
Electric Service	LS	-	-	(22)
Water, Sewer & Gas	LS	-	-	(24)
Paving, Walks, Curbs & Gutters	LS	-	-	(42)
Storm Drainage	LS	-	-	(18)
Site Improvement	LS	-	-	(37)
Information Systems	LS	-	-	(16)
EMCS Connection	LS	-	-	(16)
Subtotal				2,632
Contingency (5.00%)				132
Total Contract Cost				2,764
Supervision, Inspection & Overhead (6.00%)				166
Total Request				2,930
Total Request (Rounded)				2,930
Installed Equipment - Other Appropriations				(312)

10.Description of Proposed Construction Construct a multi-purpose indoor firing range as an addition and conversion to a building. Primary facilities include all construction within the perimeter of the range complex and consist of latrines, administration office, scoring area and storage area. Range will be connection to the existing energy monitoring and control system (EMCS). Supporting facilities include facilities outside the range complex perimeter and consist of utilities, electric service, lighting, information systems, storm drainage, sanitary sewer, paving, walks, curbs and gutters, parking, and site improvements with asbestos and lead removal. Heating and air conditioning (2 tons) will be provided by self-contained systems for administration areas only. Overhead radiant heat is required for each firing line. Access for the handicapped will be provided. Mechanical ventilation: 780,000 CFM. Demolish one World War II building (5,935 SF) at no cost to the government.

11. REQUIREMENT: 26,780 SF ADEQUATE: None SUBSTANDARD: 10,655 SF

PROJECT: Convert a building and construct an indoor firing range. (Current Mission)

REQUIREMENT: This project is urgently required to provide a multi-purpose indoor firing range to meet training and mission requirements: train the

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benning, Georgia		
4. PROJECT TITLE Indoor Firing Range		5. PROJECT NUMBER 31966

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
Trainer clinics for Special Reaction Teams and other units throughout the Army; international and national level training and competition with small bore rifles, pistols, and air guns; training in international rifle and pistol disciplines. Service rifle and pistol disciplines will also gain training time during inclement weather. The mission of US Army Marksmanship Unit (USAMU) requires that it represent the Army in national and international competition and that it host international and interservice competition. In addition, the USAMU has hosted numerous National Rifle Association regional and sectional championships and delegations from numerous foreign countries have been trained by USAMU instructors. The image of the US conveyed to foreign delegations by deteriorated facilities has been less than desirable. When completed, this facility would provide daily training for Army personnel on six firing disciplines, and will be used for international competition.
CURRENT SITUATION: Existing USAMU indoor firing range was closed January 1989 and remains closed because of health and safety problems. The building was the only indoor firing range on Fort Benning and has never met standards for international competition. This structure is 1940-era temporary wood frame in a badly deteriorated condition, which was converted by USAMU for use as an indoor firing range. The building is adjacent to a fairway on the Fort Benning golf course, which is a safety hazard in itself. Cost estimates for repair of the facility exceed the $20.00 per square foot limitation for renovation of World War II wooden buildings. Use of the range from 1985 until it was closed was permitted through waivers granted by USAIC. Personnel using the range were required to have quarterly blood screenings to measure lead levels and were limited to 24 hours per week in the building. Even with major repairs, the facility would still not meet safety and health standards and waivers would be required for continued operation.
IMPACT IF NOT PROVIDED: If this project is not provided, USAMU faces certain mission failure and remains unable to train for and host indoor interservice, national, and international shooting events. USAMU's mission to place US Army soldiers on 1992 US Olympic Shooting Team may not succeed. USAMU's ability to support Director of Civilian Marksmanship youth shooting programs will be discontinued. US Army image within the international shooting community will continue to decline.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benning, Georgia		
4. PROJECT TITLE Indoor Firing Range		5. PROJECT NUMBER 31966

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status:
- (a) Design Start Date .... Feb 90
- (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 0
- (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
- (d) Design Complete Date .... Sep 90

(2) Basis:
- (a) Standard or Definitive Design - Yes X No ___
- (b) Where Design Was Most Recently Used ____________

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
- (a) Production of Plans and Specifications 120
- (b) All Other Design Costs 80
- (c) Total Cost 200
- (d) Contract 150
- (e) In-house 50

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Targetry	OPA	92	312
		TOTAL	312

DD FORM 1 DEC 76 1391C PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Stewart Georgia	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .82

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1257	13015	2203	0	113	0	12	44	1475	18,119
B. END FY 95	1258	12871	2291	0	111	0	12	44	1475	18,062

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 284,389 AC

B. INVENTORY TOTAL AS OF 30 SEP 89......................................	353,996
C. AUTHORIZATION NOT YET IN INVENTORY....................................	32,767
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................	1,650
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	4,850
F. PLANNED IN NEXT THREE YEARS..	137,534
G. REMAINING DEFICIENCY...	357,314
H. GRAND TOTAL..	888,111

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
740	02439	Child Development Center	1,650	10/88	04/90
		SUBTOTAL PROJECTS OVER $1M	1,650		
		TOTAL	1,650		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
214	Vehicle Maintenance Shop	4,850
	SUBTOTAL PROJECTS OVER $1M	4,850
	TOTAL	4,850
B. PLANNED NEXT THREE PROGRAM YEARS :		
214	MAINTENANCE FACILITY	29,986
214	Tactical Equipment Shop	21,100
214	CON MAINT FAC, PHII	16,500
141	Battalion Headquarters and Classroom	6,744
	SUBTOTAL PROJECTS OVER $1M	74,330
	TOTAL	74,330

10. MISSION OR MAJOR FUNCTIONS:

Support and training of an Infantry Division (Mech) and non-divisional support units, and provide support for tenant and satellited activities and Reserve Components training.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Stewart Georgia

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DD FORM 1 DEC 74 1390C

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Stewart, Georgia	4. PROJECT TITLE Child Development Center

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 740	7. PROJECT NUMBER 2439	8. PROJECT COST ($000) Auth 1,650 Approp 1,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,280
Child Development Center	SF	15,400	80.19	(1,235)
Playground Equipment	LS	-	-	(39)
Information Systems	LS	-	-	(6)
Supporting Facilities				193
Electric Service	LS	-	-	(28)
Water, Sewer & Gas	LS	-	-	(22)
Paving, Walks, Curbs & Gutters	LS	-	-	(79)
Storm Drainage	LS	-	-	(15)
Site Improvement (18) Demolition (20)	LS	-	-	(38)
Information Systems	LS	-	-	(11)
Subtotal				1,473
Contingency (5.00%)				74
Total Contract Cost				1,547
Supervision, Inspection & Overhead (6.00%)				93
Total Request				1,640
Total Request (Rounded)				1,650
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design child development center (198-child capacity) with storage, and playground equipment. Supporting facilities include utilities, electric service, lighting, parking, access drive, walks, curbs and gutters, paving, fencing, fire protection and alarm systems, storm drainage, information systems, and site improvements. Heating and air conditioning (52 tons) will be provided by self-contained units. Access for the handicapped will be provided. Demolish two buildings (6,894 SF).

11. REQUIREMENT: 15,400 SF ADEQUATE: None SUBSTANDARD: 11,188 SF

PROJECT: Construct a standard-design child development center. (Current Mission)

REQUIREMENT: This project is required to serve the dependents of military personnel and civilian employees currently stationed or working at Hunter Army Airfield, Georgia by reducing lost duty time due to parental responsibilities, contributing to the quality-of-life and well-being of families, supporting parental child-rearing responsibilities, and supporting service families in their effort to attain economic self-sufficiency by providing accessible child care.

CURRENT SITUATION: Currently child development services are housed in three

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION
Fort Stewart, Georgia

4. PROJECT TITLE Child Development Center	5. PROJECT NUMBER 2439

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
separate facilities. Two of these are temporary World War II era structures with a combined square footage of 6,894 SF, which are scheduled for disposal. The third building is scheduled for reassignment. Net square footage of these structures falls short of the consolidated requirements by 4,212 SF. Due to the buildings' dispersed locations, efficient management is hindered. Routine inspections of all these facilities invariably result in numerous, expensive work order requests. In addition, normal supervisory, administrative, educational, recreational, parking, drop-off, and upkeep functions must be individually addressed at three facilities. This causes duplication and inefficiency and leads to more expense, time delays, and poor quality service.
IMPACT IF NOT PROVIDED: If this project is not provided, the current dispersed, substandard, facilities will continue to require duplication of labor, materials, and time to provide basic quality child development services. Due to the age, condition, and location of the three separate facilities, routine inspections will continue to generate large work requirements which impact directly on scarce local resources. Soldier readiness and quality-of-life and dependent growth and development will be adversely affected, while current enrollments will not likely be increased.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Renovation /Upgrade. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($1,795 K) is recommended, as more cost effective than Renovation/Upgrade ($2,205 K).

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Oct 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 70
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Apr 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Fort Riley, Kansas

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 96

INTENTIONAL
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1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Stewart, Georgia		
4. PROJECT TITLE Child Development Center		5. PROJECT NUMBER 2439

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(b) All Other Design Costs	-96
(c) Total Cost	
(d) Contract	
(e) In-house	

(4) Construction Start .... Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Hawaii		Schofield Barracks (WESTCOM)				107
	10315	Army Continuing Education Center		9,700	9,700	109
		SUBTOTAL Schofield Barracks PART I	$	9,700	9,700	
		Fort Shafter (WESTCOM)				113
	28434	Access Roads - Fort Shafter		7,400	7,400	115
		SUBTOTAL Fort Shafter PART I	$	7,400	7,400	
		* TOTAL MCA FOR Hawaii	$	17,100	17,100	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Schofield Barracks Hawaii	4. COMMAND US Army Western Command	5. AREA CONSTRUCTION COST INDEX 1.39

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1245	12100	863	0	78	0	0	0	115	14,401
B. END FY 95	1163	11947	871	0	77	0	0	0	115	14,173

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 14,089 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89	237,673
C. AUTHORIZATION NOT YET IN INVENTORY	90,773
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	9,700
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	10,750
F. PLANNED IN NEXT THREE YEARS	363,600
G. REMAINING DEFICIENCY	29,302
H. GRAND TOTAL	741,798

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
740	10315	Army Continuing Education Center	9,700	08/88	09/90
		SUBTOTAL PROJECTS OVER $1M	9,700		
		TOTAL	9,700		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
610	Supply Service & Administration Bldg	3,250
179	MULT PUR MACH GUN & SNI,PT	7,500
	SUBTOTAL PROJECTS OVER $1M	10,750
	TOTAL	10,750
B. PLANNED NEXT THREE PROGRAM YEARS :		
890	UTILITIES & GR IMP POKULOA	48,213
842	WATER PIPE LINE POHAKULA	30,000
721	BARRACKS POHAKULOA	18,557
	SUBTOTAL PROJECTS OVER $1M	96,770
	TOTAL	96,770

10. MISSION OR MAJOR FUNCTIONS:

Schofield Barracks houses peacetime garrison troops and their supporting organizations. It is the headquarters for the 25th Infantry Division. It also houses parts of the U.S. Army Support Command Hawaii (USASCH), U.S. Army Information Systems Command and the 45th Support Group.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Schofield Barracks Hawaii

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Schofield Barracks, Hawaii	4. PROJECT TITLE Army Continuing Education Center

5. PROGRAM ELEMENT 22496A	6. CATEGORY CODE 740	7. PROJECT NUMBER 10315	8. PROJECT COST ($000) Auth 9,700 Approp 9,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,425
ACES/Main Library	SF	63,680	115.42	(7,350)
Information Systems	LS	-	-	(75)
Supporting Facilities				1,261
Electric Service	LS	-	-	(213)
Water, Sewer & Gas	LS	-	-	(97)
Paving, Walks, Curbs & Gutters	LS	-	-	(246)
Storm Drainage	LS	-	-	(100)
Site Improvement (472) Demolition (123)	LS	-	-	(595)
Information Systems	LS	-	-	(10)
Subtotal				8,686
Contingency (5.00%)				434
Total Contract Cost				9,120
Supervision, Inspection & Overhead (6.50%)				593
Total Request				9,713
Total Request (Rounded)				9,700
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design Army Continuing Education System (ACES) and library building. Supporting facilities include utilities, electric service, fire protection and alarm systems, acoustic treatment, information systems, roads, parking, storm drainage, paving, walks, curbs and gutters, and site improvements. Access for the handicapped will be provided. Air conditioning (120 tons) will be provided by a self-contained system. Demolish eight buildings (21,737 SF).

11. REQUIREMENT: 63,090 SF ADEQUATE: None SUBSTANDARD: 46,452 SF

PROJECT: Construct a standard-design Army Continuing Education System (ACES) and library facility. (Current Mission)

REQUIREMENT: This project is required to meet the needs of approximately 25,000 military and their dependents. The library will also serve as the Command Reference Center and eventually develop into an automated data processing equipment service liaison between Army libraries in the Pacific Area and the continental United States (CONUS).

CURRENT SITUATION: The Education Complex is comprised of three elements: Carter Hall, built in 1915 for general purpose administration and currently being used for administration and counseling; Subcenter East, consisting of five temporary wooden buildings built in 1943 and three prefabricated metal

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Schofield Barracks, Hawaii		
4. PROJECT TITLE Army Continuing Education Center		5. PROJECT NUMBER 10315

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
buildings built in 1974, currently used for academic and skill training; and Subcenter West, used to provide vocational training. This project will provide new facilities replacing Carter Hall and Subcenter East. The library is housed in a small, temporary building which will be converted to Exchange System use.

IMPACT IF NOT PROVIDED: If this project is not provided, the education complex will continue in its present mode of unsatisfactory operation, utilizing widely separated facilities ill-suited for educational purposes. The quality of life for the military will continue to be degraded by the poor continuing educational facilities and an overcrowded library.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Aug 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	45
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used ______________

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	340
(b) All Other Design Costs	258
(c) Total Cost	598
(d) Contract	411
(e) In-house	187

(4) Construction Start .... May 91 (month & year)

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Schofield Barracks, Hawaii		
4.PROJECT TITLE Army Continuing Education Center		5.PROJECT NUMBER 10315

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Shafter Hawaii	4. COMMAND US Army Western Command	5. AREA CONSTRUCTION COST INDEX 1.39

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	280	779	2835	0	0	0	0	15	122	4,031
B. END FY 95	266	783	2530	0	0	0	0	15	122	3,716

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	590 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89......................................		0
C. AUTHORIZATION NOT YET IN INVENTORY....................................		35,761
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................		7,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................		2,550
F. PLANNED IN NEXT THREE YEARS...		45,213
G. REMAINING DEFICIENCY..		16,392
H. GRAND TOTAL...		107,316

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
851	28434	Access Roads - Fort Shafter	7,400	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M	7,400		
		TOTAL	7,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
740	Child Development Center	2,550
	SUBTOTAL PROJECTS OVER $1M	2,550
	TOTAL	2,550
B. PLANNED NEXT THREE PROGRAM YEARS :		
214	TAC EQ SHOP-29TH TOPO	13,550
871	FLOOD CONT IMPROVEMENT	8,145
442	GENERAL PURP WAREHOUSE	5,223
442	GEN PURP WHSE(HSG)	5,223
	SUBTOTAL PROJECTS OVER $1M	32,141
	TOTAL	32,141

10. MISSION OR MAJOR FUNCTIONS:

Fort Shafter provides headquarters for U.S. Army Support Command Hawaii (USASCH), U.S. Army Western Command (WESTCOM), and the U.S. Army Corps of Engineers, Pacific Ocean Division. It also provides field offices and support for other miscellaneous agencies.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Shafter Hawaii

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Shafter, Hawaii	4.PROJECT TITLE Access Roads - Fort Shafter

5.PROGRAM ELEMENT 91212A	6.CATEGORY CODE 851	7.PROJECT NUMBER 28434	8.PROJECT COST ($000) Auth 7,400 Approp 7,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,400
Upgrade Access Road	MI	13	569,200	(7,400)
Subtotal				7,400
Contingency (.00%)				
Total Contract Cost				7,400
Supervision, Inspection & Overhead (.00%)				
Total Request				7,400
Total Request (Rounded)				7,400
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Finance the construction of 13 miles of public highway (Hawaii Route 200) within the boundaries of the Pohakuloa Training Area. The road width will be increased from a narrow 12-foot wide asphalt travel lane with 4-foot wide oiled paved shoulders to a 22-foot pavement with 10-foot shoulders (4-foot paved and 6-foot unpaved) with realignment where appropriate. Funds provided will be transfered to the Federal Highway Administration of the Department of Transportation which is responsible under Title 23 USC 210 for assuring proper execution of the work.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None

REQUIREMENT: These funds are required to provide access roads under authorization contained in Title 23 USC 210. The importance and use of this realistic combined live-fire maneuver training area has increased in the recent past. Defense generated traffic on Route 200 within the training area boundary (which is the majority of the total traffic) has suddenly and significantly increased to the point where the public highway department cannot maintain the road. All of Route 200 (some 50 miles) is narrow, winding, in poor condition, and carries relatively low volumes of traffic. We are looking to the State and County to provide improvements to other sections as part of their planned highway development program. Military and civilian

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Shafter, Hawaii		
4.PROJECT TITLE Access Roads - Fort Shafter		5.PROJECT NUMBER 28434

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
personnel injuries and fatalities have been reported in traffic accidents due to the condition and use of this road. (Current Mission)

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... N/A
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A
(c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A
(d) Design Complete Date .... N/A

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications .... N/A
(b) All Other Design Costs .... ____
(c) Total Cost .... ____
(d) Contract .... N/A
(e) In-house .... N/A

(4) Construction Start .... N/A
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Indiana		Fort Benjamin Harrison (TRADOC)				119
	1676	Learning Research Center		4,300	4,300	121
	10680	Fire Station		1,300	1,300	124
		SUBTOTAL Fort Benjamin Harrison PART I	$	5,600	5,600	
		* TOTAL MCA FOR Indiana	$	5,600	5,600	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benjamin Harrison Indiana	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX 1.09

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	385	1118	4172	437	2238	113	59	140	468	9,130
B. END FY 95	689	1500	4655	361	2327	189	68	141	468	10,398

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	2,501 AC
B. INVENTORY TOTAL AS OF 30 SEP 89......................................	112,608
C. AUTHORIZATION NOT YET IN INVENTORY....................................	8,110
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................	5,600
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM............................	2,000
F. PLANNED IN NEXT THREE YEARS..	64,420
G. REMAINING DEFICIENCY...	96,652
H. GRAND TOTAL..	289,390

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	01676	Learning Research Center	4,300	07/87	09/90
730	10680	Fire Station	1,300	04/89	09/90
		SUBTOTAL PROJECTS OVER $1M	5,600		
		TOTAL	5,600		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
800	Energy Monitoring and Control System	2,000
	SUBTOTAL PROJECTS OVER $1M	2,000
	TOTAL	2,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
724	Unaccompanied Officer Housing	13,600
442	CONSOLIDATED SUPPLY FAC	12,600
610	BLDG 1, ADP ADDITION	11,400
721	ENLISTED BKS W/ADMIN & SUP	6,900
	SUBTOTAL PROJECTS OVER $1M	44,500
	TOTAL	44,500

10. MISSION OR MAJOR FUNCTIONS:

The primary mission of the Soldier Support Center is an administrative/school center to support the Defense Information School and the US Army Soldier Support Institute. Training is

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Benjamin Harrison Indiana

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

conducted for Finance, Recruiting & Retention, Physical Fitness, Adjutant General, Community Activity Schools, and ROTC Reserve Officer Training Course. The Soldier Support Center also supports as required, the US Army Finance & Accounting Center, Hawley Army Community Hospital, Army Reserve Units, Army National Guard, and ROTC units within the assigned geographic area; as well as, other tenant activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana	4.PROJECT TITLE Learning Research Center

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 171	7.PROJECT NUMBER 1676	8.PROJECT COST ($000) Auth 4,300 Approp 4,300

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,241
Learning Research Center	SF	15,485	74.48	(1,153)
ACES Facility	SF	11,785	74.48	(878)
Library Main	SF	15,000	74.48	(1,117)
Information Systems	LS	-	-	(93)
Supporting Facilities				643
Electric Service	LS	-	-	(69)
Water, Sewer & Gas	LS	-	-	(30)
Paving, Walks, Curbs & Gutters	LS	-	-	(119)
Storm Drainage	LS	-	-	(114)
Site Improvement	LS	-	-	(170)
Information Systems	LS	-	-	(127)
EMCS Connection	LS	-	-	(14)
Subtotal				3,884
Contingency (5.00%)				194
Total Contract Cost				4,078
Supervision, Inspection & Overhead (6.00%)				245
Total Request				4,323
Total Request (Rounded)				4,300
Installed Equipment - Other Appropriations				(28)

10.Description of Proposed Construction Construct a consolidated facility for the Army Continuing Education System (ACES), Learning Research Center, and Library. Facilities include space for career skills instruction, professional development instruction, post learning center, administrative counseling support and an academic and technical library. Connections for energy monitoring and control systems (EMCS). Supporting facilities include utilities, electric service, fire protection and alarm systems, information systems, walks, curbs and gutters, storm drainage, sanitary sewer, parking, and site improvements. Access for the handicapped will be provided. Heating and air conditioning (160 tons) will be provided by self-contained systems.

11. REQUIREMENT: 40,450 SF ADEQUATE: None SUBSTANDARD: 37,399 SF

PROJECT: Construct a consolidated facility for the Army Continuing Education System (ACES), Learning Research Center, and Library. (Current Mission)

REQUIREMENT: This project is required to support academic requirements of the US Army Soldier Support Institute (USASSI), Adjutant General School, Finance School, Physical Fitness School, Community Activities School, the Reserve Officers' Training Corps (ROTC) School, the Defense Information School and for after-duty hours support for soldiers. The Army Continuing Education

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana		
4.PROJECT TITLE Learning Research Center		5.PROJECT NUMBER 1676

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
System Program provides an integrated system of both on and off-duty self-development educational opportunities to support training requirements and professional development directly. The forthcoming interdisciplinary approach will provide for close technical and educational counseling support, enhance library usage and coordinate administrative functions into one facility.
CURRENT SITUATION: Current facilities to support the various activities and schools on Fort Benjamin Harrison are antiquated and scattered throughout post. The various activities and schools now occupy such facilities as an old basement from a 1908-era officer's quarters converted horse stables built in 1908, renovated barracks originally constructed in 1943, and diverted mission essential classrooms.
IMPACT IF NOT PROVIDED: If this project is not provided, schools and training activities at Fort Benjamin Harrison will continue to operate inefficiently in widely-dispersed, inadequate facilities. There will be no physical science laboratory, language laboratory, laboratory spaces for artificial intelligence, or microcomputer clusters for research and analysis. As a result, the installation will not be able to increase efficiency and improve soldier support through shared education and library resources. Integration of high technology into the soldiers' professional studies will not occur. The library will continue to maintain costly duplicate reference and periodical collections. Services to soldiers, family members and civilian employees will continue at reduced levels due to present building limitations and fragmentation of staff.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jul 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 90
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana		
4. PROJECT TITLE Learning Research Center		5. PROJECT NUMBER 1676

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3)	Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a)	Production of Plans and Specifications	260
(b)	All Other Design Costs	100
(c)	Total Cost	360
(d)	Contract	270
(e)	In-house	90
(4)	Construction Start	Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	28
		TOTAL	28

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana	4.PROJECT TITLE Fire Station

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 730	7.PROJECT NUMBER 10680	8.PROJECT COST ($000) Auth 1,300 Approp 1,300

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				893
Fire Station	SF	8,337	93.44	(779)
Information Systems	LS	–	–	(95)
Standby Generator	LS	–	–	(19)
Supporting Facilities				291
Electric Service	LS	–	–	(10)
Water, Sewer & Gas	LS	–	–	(34)
Steam, Chilled Water & Heat Distribution	LS	–	–	(22)
Paving, Walks, Curbs & Gutters	LS	–	–	(111)
Storm Drainage	LS	–	–	(3)
Site Improvement (25) Demolition (14)	LS	–	–	(39)
Information Systems	LS	–	–	(72)
Subtotal				1,184
Contingency (5.00%)				59
Total Contract Cost				1,243
Supervision, Inspection & Overhead (6.00%)				75
Total Request				1,318
Total Request (Rounded)				1,300
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct a Department of the Army (DA) standard/definitive design two-company headquarters fire station including three drive-through fire apparatus bays, sleeping quarters, classroom, physical training room, kitchen, lounge, maintenance and storage rooms, watchroom and offices. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, information systems, storm drainage, and site improvements. Access for the handicapped will be provided. Air conditioning (4 tons) will be provided by a self-contained system. Steam heat will be provided from a central plant. Demolish one temporary building (3,835 SF). Supporting costs are high due to the paving requirement associated with a drive-through DA standard/definitive design facility.

11. REQUIREMENT: 8,400 SF ADEQUATE: None SUBSTANDARD: 5,938 SF

PROJECT: Construct a DA standard/definitive design fire station. (Current Mission)

REQUIREMENT: Project is required to provide adequate space for fire fighting apparatus, equipment, and personnel.

CURRENT SITUATION: The present location of the fire station prevents coverage of all areas of Fort Benjamin Harrison within the required response time limits. Two fire apparatus vehicles are garaged in the existing

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

26-769 O—90——11

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana		
4. PROJECT TITLE Fire Station		5. PROJECT NUMBER 10680

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
building, while a third vehicle must be stored outside. This building also provides the sleeping quarters and communications center. A separate building contains the offices, classroom, physical training room, latrines, kitchen, and maintenance and storage room. Neither building can be expanded because of adjacent structures and roads.
IMPACT IF NOT PROVIDED: If this project is not provided, critical response time will continue to be inadequate due to the location of the present facility, fire apparatus will continue to be stored outside, and academic and physical fitness training will not improve.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Apr 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Initial Use

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 60
(b) All Other Design Costs 60
(c) Total Cost 120
(d) Contract 80
(e) In-house 40

(4) Construction Start .... Jan 91
month & year

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Benjamin Harrison, Indiana		
4.PROJECT TITLE Fire Station		5.PROJECT NUMBER 10680

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Kansas		Fort Leavenworth (TRADOC)			129
	11362	General Instruction Building	34,000	34,000	131
		SUBTOTAL Fort Leavenworth PART I	$ 34,000	34,000	
		Fort Riley (FORSCOM)			135
	6643	Tactical Equipment Shop	12,200	12,200	137
	9185	Multi-Purpose Machine Gun Range	2,700	2,700	140
		SUBTOTAL Fort Riley PART I	$ 14,900	14,900	
		* TOTAL MCA FOR Kansas	$ 48,900	48,900	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leavenworth Kansas	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .99

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1198	1215	2287	1641	15	45	91	180	20	6,692
B. END FY 95	1190	1369	2239	2068	13	39	91	180	20	7,209

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	6,995 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	101,642
C. AUTHORIZATION NOT YET IN INVENTORY..................................	24,508
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	34,000
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	890
F. PLANNED IN NEXT THREE YEARS...	97,550
G. REMAINING DEFICIENCY..	96,670
H. GRAND TOTAL...	355,260

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	11362	General Instruction Building	34,000	08/86	09/90
		SUBTOTAL PROJECTS OVER $1M	34,000		
		TOTAL	34,000		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
730	Fire Station	890
	SUBTOTAL PROJECTS $1M & LESS	890
	TOTAL	890
B. PLANNED NEXT THREE PROGRAM YEARS :		
724	BOQ	28,000
610	Combined Arms Training Center	26,000
171	General Instruction Facility	16,500
610	RENOVATE BLDG 52 (CLOCK)	11,000
	SUBTOTAL PROJECTS OVER $1M	81,500
	TOTAL	81,500

10. MISSION OR MAJOR FUNCTIONS:

Provides administrative and logistical support to US Army Command and General Staff College, US Army Disciplinary Barracks, US Army Combined Arms Center and other tenant organizations.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Leavenworth Kansas

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Leavenworth, Kansas	4. PROJECT TITLE General Instruction Building

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 171	7. PROJECT NUMBER 11362	8. PROJECT COST ($000) Auth 34,000 Approp 34,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				26,902
General Instruction Building	SF	136,490	96.73	(13,203)
Library/Learning Resource Center	SF	120,286	96.73	(11,635)
Special Foundations	LS	-	-	(1,481)
Information Systems	LS	-	-	(583)
Supporting Facilities				3,728
Electric Service	LS	-	-	(1,471)
Water, Sewer & Gas	LS	-	-	(76)
Paving, Walks, Curbs & Gutters	LS	-	-	(647)
Storm Drainage	LS	-	-	(130)
Site Improvement	LS	-	-	(987)
Information Systems	LS	-	-	(389)
EMCS Connection	LS	-	-	(28)
Subtotal				30,630
Contingency (5.00%)				1,532
Total Contract Cost				32,162
Supervision, Inspection & Overhead (6.00%)				1,930
Total Request				34,092
Total Request (Rounded)				34,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a general instruction building and a contiguous library and learning resource center including classrooms, conference rooms, computer lab, office space for staff and faculty, research and archive areas, storage and special purpose space. Due to the nature of the soil, a special foundation is required. Connect to energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, information systems, fire protection, and site improvements. Heating and air conditioning (1,027 tons) will be provided by self-contained systems. Access for the handicapped will be provided.

11. REQUIREMENT: 725,177 SF ADEQUATE: 368,248 SF SUBSTANDARD: 34,582 SF

PROJECT: Construct a general instruction building and a contiguous library and learning research center for the US Army Command and General Staff College (CGSC). (Current Mission)

REQUIREMENT: This project is required to support the planned academic expansion of the US Army CGSC, whose mission is to train and develop future leaders with skills commensurate with the technologies being used and developed by the Army. This expansion will result in a 61 percent increase in the number of students enrolled in all 28 courses at the college. This facility is required to eliminate the use of on-post diverted facilities (e.g.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Leavenworth, Kansas

4.PROJECT TITLE General Instruction Building	5.PROJECT NUMBER 11362

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
former horse stables) as classrooms, to eliminate lease of inadequate off-post facilities, and to provide space for courses being revised and relocated from the Armed Forces Staff College in Norfolk, Virginia. Also required is a modern Research Library and Learning Resource Center to support the expanding role of the college. It will provide space for much needed collection storage and expansion, a separate map library, audio and visual rooms, small group study rooms, adequate environmental controls for archives and rare material storage, advanced electronic storage and retrieval systems, functionally efficient staff work areas and sufficient space for students.

CURRENT SITUATION: CGSC operations are currently fragmented among five buildings on-post and numerous leased facilities off-post. The two principle buildings, Bell Hall (constructed in the 1950s) and the adjoining Johnson Hall (constructed in 1985) are inadequate, overly crowded and cannot support modern education requirements and new teaching concepts. Classes that cannot be accommodated in these two buildings are conducted in former horse stables, a gymnasium, and bachelor officers quarters, which are even more inadequate than Bell and Johnson Halls. All facilities lack sufficient electric power and data transmission capability to support automation and advanced computer-assisted instruction. Due to demand, all 28 courses offered by the CGSC are given in numerous off-post facilities, primarily motels and hotels. These facilities are just as inadequate as those on-post. Some are as far away as 50 miles (one way) which causes a commuting problem for instructors, obvious class scheduling difficulties, and denies students the benefits of post resources such as the library. Lease costs are projected at $850,000 for FY 89 and will increase with college growth. The Combined Arms Research Library is inadequate in every way; it has limited seating and study areas for students, staff and faculty; must fragment the storage of its material collections, and cannot provide for rapidly expanding collections; cannot provide sufficient power and telecommunications support for electronic storage and retrieval systems; lacks adequate environmental controls for archived and rare collections; staff work areas are too small and efficient functional layout is not possible.

IMPACT IF NOT PROVIDED: If this project is not provided, the CGSC will not be able to support the estimated 61 percent increase in student population. The present inadequate facilities will remain in use, supplemented by the lease of even more off-post facilities, when they are available, at even greater expense. Library collections will remain frozen at current levels and scattered through the college in various storage sites. Advanced electronic information storage and retrieval will not be available. The development and use of training equipment and teaching approaches that will lay the foundation for instruction of future Army leaders will not be possible.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leavenworth, Kansas		
4. PROJECT TITLE General Instruction Building		5. PROJECT NUMBER 11362

11. REQUIREMENT: (Continued)
ADDITIONAL: (Continued)
project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Renovation and Lease. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($34,060 K) is recommended, as more cost effective than Renovation and Lease ($45,359 K).

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Aug 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 80
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 1088
(b) All Other Design Costs 560
(c) Total Cost 1,648
(d) Contract 1348
(e) In-house 300

(4) Construction Start .... Dec 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Riley Kansas	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .89

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1631	13930	2160	10	145	0	21	57	32	17,986
B. END FY 95	1612	13711	2264	10	142	0	21	57	32	17,849

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 100,765 AC	
B. INVENTORY TOTAL AS OF 30 SLP 89......................................	348,590
C. AUTHORIZATION NOT YET IN INVENTORY....................................	68,961
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................	14,900
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	2,280
F. PLANNED IN NEXT THREE YEARS...	163,729
G. REMAINING DEFICIENCY............................	262,853
H. GRAND TOTAL...	861,313

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE		COST ($000)	DESIGN STATUS START	COMPLETE
214	06643	Tactical Equipment Shop		12,200	09/83	09/90
179	09185	Multi-Purpose Machine Gun Range		2,700	03/89	04/90
		SUBTOTAL PROJECTS OVER $1M		14,900		
			TOTAL	14,900		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE		COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :			
179	Modified Record Fire Range		1,850
	SUBTOTAL PROJECTS OVER $1M		1,850
422	Arms Storage Facility		430
	SUBTOTAL PROJECTS $1M & LESS		430
		TOTAL	2,280
B. PLANNED NEXT THREE PROGRAM YEARS :			
851	TANK TRAIL IMPRV-YELLOW		14,505
442	General Purpose Warehouse		12,200
721	Barracks Modernization		10,400
	SUBTOTAL PROJECTS OVER $1M		37,105
		TOTAL	37,105

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Riley Kansas

10. MISSION OR MAJOR FUNCTIONS:

Provide for the support and training of the First Infantry Division (Mech) and non-divisional support units. Support the U. S. Army Correctional Activity, Third Region ROTC, Readingess Group, and reserve components training.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Riley, Kansas	4.PROJECT TITLE Tactical Equipment Shop

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 214	7.PROJECT NUMBER 6643	8.PROJECT COST ($000) Auth 12,200 Approp 12,200

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				9,672
Tactical Equipment Shop	SF	92,845	81.25	(7,544)
Deployment Storage Building	SF	2,800	30.71	(86)
Flammable Storage Building	SF	300	96.67	(29)
Oil Storage Building	SF	480	95.83	(46)
Sentry Station	SF	120	158.33	(19)
See Cost Estimates (Continued)				(1,948)
Supporting Facilities				1,371
Electric Service	LS	-	-	(218)
Water, Sewer & Gas	LS	-	-	(317)
Paving, Walks, Curbs & Gutters	LS	-	-	(335)
Storm Drainage	LS	-	-	(77)
Site Improvement	LS	-	-	(312)
Information Systems	LS	-	-	(112)
Subtotal				11,043
Contingency (5.00%)				552
Total Contract Cost				11,595
Supervision, Inspection & Overhead (6.00%)				696
Total Request				12,291
Total Request (Rounded)				12,200
Installed Equipment - Other Appropriations				(22)

10.Description of Proposed Construction Construct a standard-design tactical equipment shop with storage buildings, hardstands, sentry station, and fuel station building with fuel dispensing islands and underground fuel storage. The scheduled maintenance facility will be integrated as part of the bay space into the tactical equipment shop. Install an intrusion detection system (IDS). Supporting facilities include utilities with meters, electric service, information systems, sanitary sewer, waste oil storage, fire protection and alarm systems, paving, walks, curbs and gutters, access road, security fencing and gate, parking, storm drainage, and site improvements. Heating and air conditioning (19 tons) will be provided by gas-fired self-contained units.

11. REQUIREMENT: 308,415 SF ADEQUATE: 226,021 SF SUBSTANDARD: None

PROJECT: Construct a standard-design tactical equipment shop. (Current Mission)

REQUIREMENT: This project is required to provide an adequate maintenance facility for the 201st Forward Support Battalion stationed at Fort Riley. Division Support Command's (DISCOM) total maintenance requirement is now 318,338 SF. Their assets include four permanent maintenance facilities for a total of 236,001 SF. This includes a facility now under construction (Project Number 366) for the 101st Forward Support Battalion. After Project Number 366

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		JAN 90

3. INSTALLATION AND LOCATION

Fort Riley, Kansas

4. PROJECT TITLE

Tactical Equipment Shop

5. PROJECT NUMBER

6643

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Fuel Station Building	SF	120	158.33	19
Hardstand	SY	44,520	38.99	1,736
Fueling System	LS	-	-	119
Information Systems	LS	-	-	74
			Total	1,948

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
is completed, DISCOM's assets will be at 74 percent of their authorization. This project would complete the installation requirement for Direct Support maintenance facilities.

CURRENT SITUATION: Currently, Fort Riley has one Direct Support maintenance facility (Category Code 21020). The existing building was built in 1973 for the 701st Maintenance Battalion. The facility was designed with three wings for the use of organizational line companies and two for Direct Support companies. Since Army of Excellence (AOE) reorganization occurred, elements from all of the reorganized battalions (101st Forward Support Battalion, 201st Forward Support Battalion, and the 701st Main Support Battalion) and the Headquarters/Headquarters Detachment (HHD)/DISCOM are crowded into insufficient space. When Project Number 366 is completed, the 101st Forward Support Battalion will move out of the building, relieving some of the crowded conditions. The 701st Main Support Battalion and HHD/DISCOM require the majority of the space; therefore, maintenance functions of the 201st Forward Support Battalion will be carried on in two or three different areas, resulting in inefficient operations.

IMPACT IF NOT PROVIDED: If this project is not provided, the 201st Forward Support Battalion will continue to operate out of the undersized organizational level maintenance facilities. The DISCOM will remain at only 74 percent of what is authorized in maintenance facilities. Laser testing facilities will be insufficient, requiring that all testing be conducted in the existing building for all three Support Battalions. This will increase maintenance turn-around time for laser sights on M-1 tanks. The 201st Forward Support Battalion maintenance facilities will be located a mile from the 2d Brigade, the element they support.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is completely designed at 74,804 SF, and is awaiting construction funds. Additional design work will be required to adjust the design to current scope and new criteria. The cost estimate in

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Riley, Kansas		
4. PROJECT TITLE Tactical Equipment Shop		5. PROJECT NUMBER 6643

11. REQUIREMENT: (Continued)
ADDITIONAL: (Continued)
this DD1391 is based on the Code C estimate.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Sep 83
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Fort Riley, Kansas

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 251
(b) All Other Design Costs 736
(c) Total Cost 987
(d) Contract 693
(e) In-house 294

(4) Construction Start .... Dec 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	8
Information Sys Eq	OPA	91	14
		TOTAL	22

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Riley, Kansas	4. PROJECT TITLE Multi-Purpose Machine Gun Range

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 179	7. PROJECT NUMBER 9185	8. PROJECT COST ($000) Auth 2,700 Approp 2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,879
Machine Gun Range	LS	-	-	(1,879)
Supporting Facilities				529
Electric Service	LS	-	-	(63)
Storm Drainage	LS	-	-	(6)
Site Improvement	LS	-	-	(58)
Information Systems	LS	-	-	(402)
Subtotal				2,408
Contingency (5.00%)				120
Total Contract Cost				2,528
Supervision, Inspection & Overhead (6.00%)				152
Total Request				2,680
Total Request (Rounded)				2,700
Installed Equipment - Other Appropriations				(1,412)

10. Description of Proposed Construction Construct a Multi-Purpose Machine Gun Range with a standard-design Machinegun Transition Range with 15 stationary infantry target emplacements per lane and one infantry moving target carrier emplacement with concrete coffins, berm, retaining wall, track for moving target and junction boxes. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operation and storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, primary and secondary power and data distribution system, foxholes, lane markers, parking, maintenance trails, apron at firing lanes for wheeled and tracked vehicles, flag pole, and site improvements. Supporting facilities include facilities outside the range complex perimeter, and primary power, information systems, paving and storm drainage. Heating and ventilation systems will be provided in the ammunition breakdown building and general instruction facilities. Air conditioning (1 ton) will be provided for the control tower only. Dud clearance is required. Targetry will be funded by Other Project Appropriations (OPA).

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a multi-purpose machine gun range. (Current Mission)

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Riley, Kansas		
4.PROJECT TITLE Multi-Purpose Machine Gun Range		5.PROJECT NUMBER 9185

11. REQUIREMENT: (Continued)

REQUIREMENT: This project is required to provide an adequate training facility for current M2/M60 machine guns, squad automatic weapons (SAW) and the Bradley dismounted fighting vehicle exercises for small caliber weapons. This project will reduce the demand on the Multi-Purpose Range Complex, (Project 359, FY 84), which is overloaded by a projected 22 training days. This project will combine the installation's requirements for four range requirements: one 10M Machine Gun Range, one M60 Transition Range, one M60/M2 Machine Gun Range, and projected SAW firing requirements.

CURRENT SITUATION: The Multi-Purpose Range Complex in the FY 84 Military Construction Program was constructed to satisfy part of the training requirements for the M-1 and M-2 at Fort Riley. It is not capable of supporting all the training requirements of the 1st Infantry Division (Mechanized) and Fort Riley, as well as reserve components, and Reserve Officer Training Corps (ROTC) training during summer months. Qualification requirements, excluding subcaliber tables, are projected to total 368 training days per year. Projected maintenance requirements are an additional 68 days per year. The existing targetry is antiquated, difficult to maintain, and does not permit weapons qualification in accordance with current Army standards. Currently, soldiers can qualify on a substandard machine gun range only by using reduced standards.

IMPACT IF NOT PROVIDED: If this project is not provided, the crews of the combat vehicles will not be able to train sufficiently, which will adversely affect the training mission and combat readiness. Additionally, issue of the new target equipment may be delayed until adequate facilities are available. Fort Riley will not be able to qualify current SAW, M2, and M60 machine gun crews in accordance with current Army standards.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that was in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Mar 89

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 65

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Apr 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Riley, Kansas

4. PROJECT TITLE Multi-Purpose Machine Gun Range	5. PROJECT NUMBER 9185

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

		($000)
(3)	Total Cost (c) = (a)+(b) or (d)+(e):	
(a)	Production of Plans and Specifications	118
(b)	All Other Design Costs	82
(c)	Total Cost	200
(d)	Contract	136
(e)	In-house	64

(4) Construction Start .... Apr 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
RETS Targetry	OPA	91	1408
Information Sys Eq	OPA	91	4
		TOTAL	1,412

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Kentucky		Fort Campbell (FORSCOM)				145
	4313	Modified Record Fire Range		1,250	1,250	147
	24142	Machine Gun Transition Range		1,050	1,050	150
		SUBTOTAL Fort Campbell PART I	$	2,300	2,300	
		Fort Knox (TRADOC)				153
	5922	Automated Record Fire Range		2,800	2,800	155
	27809	Multi Purpose Range Complex - Heavy		22,600	22,600	158
		SUBTOTAL Fort Knox PART I	$	25,400	25,400	
		* TOTAL MCA FOR Kentucky	$	27,700	27,700	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Campbell Kentucky	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .98

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	2693	19493	2406	12	157	0	22	87	80	24,950
B. END FY 95	2760	19654	2540	12	139	0	22	87	80	25,294

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 36,553 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89	260,170
C. AUTHORIZATION NOT YET IN INVENTORY	97,388
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	2,300
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	26,890
F. PLANNED IN NEXT THREE YEARS	151,113
G. REMAINING DEFICIENCY	668,826
H. GRAND TOTAL	1,206,687

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	04313	Modified Record Fire Range	1,250	04/85	09/90
179	24142	Machine Gun Transition Range	1,050	09/87	09/90
		SUBTOTAL PROJECTS OVER $1M	2,300		
		TOTAL	2,300		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92):		
722	Dining Facilities Modernization	3,200
442	Medical Supply Warehouse	2,540
171	Battle Simulation Facility	3,800
218	Maintenance Shop	13,600
141	Special Operations Forces Headquarters	3,750
	SUBTOTAL PROJECTS OVER $1M	26,890
	TOTAL	26,890

10. MISSION OR MAJOR FUNCTIONS:

Support and training of an Airborne (Air Assault) Division and other non-divisional support units.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	20

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Campbell Kentucky

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES: (...CONTINUE)

B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	1

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1390C

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Campbell, Kentucky	4. PROJECT TITLE Modified Record Fire Range

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 179	7. PROJECT NUMBER 4313	8. PROJECT COST ($000) Auth 1,250 Approp 1,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,111
Modified Record Fire Range	LS	–	–	(778)
Electric Service	LS	–	–	(17)
Roads	LS	–	–	(180)
Site Improvement	LS	–	–	(125)
Information Systems	LS	–	–	(11)
Supporting Facilities				31
Information Systems	LS	–	–	(31)
Subtotal				1,142
Contingency (5.00%)				57
Total Contract Cost				1,199
Supervision, Inspection & Overhead (6.00%)				72
Total Request				1,271
Total Request (Rounded)				1,250
Installed Equipment - Other Appropriations				(986)

10. Description of Proposed Construction Construct on two ranges a standard-design Modified Record Fire Range consisting of 16 firing lanes. Each lane is 30 meters wide and displays nine stationary pop-up targets from 175 to 300 meters downrange, and one Infantry Hostile Firing Simulator at 100 meters. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, general instruction building, operation and storage building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking, foxholes, stationary target emplacements, secondary power and data distribution systems, information systems, and site improvements. Heating and air conditioning (1 ton) will be provided by a self-contained system for the control tower only. Supporting facilities include all construction outside the perimeter of the range complex and consists of primary power, information systems, fencing, paving, and site improvements. Demolish 90 concrete foxholes (pipe sections), two towers, two range sheds, 95 in-ground poles, one latrine and 55 plywood target emplacements.

11. REQUIREMENT: 2 EA ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct on two ranges a standard-design modified record fire range. (Current Mission)

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Campbell, Kentucky		
4. PROJECT TITLE Modified Record Fire Range		5. PROJECT NUMBER 4313

11. REQUIREMENT: (Continued)

REQUIREMENT: This project is required to provide soldiers of the 101st Airborne Division (Air Assault), supporting units and US Army Reserve components a facility to exercise all live-fire training requirements to improve combat readiness.

CURRENT SITUATION: Basic rifle marksmanship training is conducted on inadequate, obsolete facilities using trainfire training methods. The current system is time consuming and inefficient. This project and Project 354, Modified Record Fire Range, FY 93 MCA, are being programmed so that Fort Campbell can accommodate the M16A2 which was fielded in FY 88. The present small arms range configuration and impact area will not facilitate the greater range of the M16A2 ballistics profile without the realignment proposed in these two projects.

IMPACT IF NOT PROVIDED: If this project is not provided, use of inefficient manually-scored ranges will continue, resulting in lost training effort, and Fort Campbell will not be able to meet the training requirements of the M16A2 rifle.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Off-Post Training. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($1,455 K) is recommended as more cost effective than Off-Post Training ($5,536 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Apr 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)	50
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Knox, Kentucky

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	91
(c) Total Cost	151
(d) Contract	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Campbell, Kentucky		
4. PROJECT TITLE Modified Record Fire Range		5. PROJECT NUMBER 4313

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 151

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Computer Controlled Target Equipment	OPA	91	986
		TOTAL	986

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Campbell, Kentucky	4. PROJECT TITLE Machine Gun Transition Range

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 179	7. PROJECT NUMBER 24142	8. PROJECT COST ($000) Auth 1,050 Approp 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				884
Control Tower	LS	-	-	(57)
Latrine	LS	-	-	(18)
Storage Building	SF	800	56.25	(45)
Access Road	LS	-	-	(68)
Target Emplacements	LS	-	-	(91)
See Cost Estimates (Continued)				(605)
Supporting Facilities				40
Information Systems	LS	-	-	(40)
Subtotal				924
Contingency (5.00%)				46
Total Contract Cost				970
Supervision, Inspection & Overhead (6.00%)				58
Total Request				1,028
Total Request (Rounded)				1,050
Installed Equipment - Other Appropriations				(425)

10. Description of Proposed Construction Convert a 25-meter zero rifle range into a multipurpose machine gun transition range with five lanes. Each lane displays eight M-60 targets and eight Squad Automatic Weapon (SAW) targets. Primary facilities include all construction within the perimeter of the range complex and consist of control tower, latrine, operation and storage building, range lighting, primary and secondary power and data distribution system, public address system, maintenance trails, foxholes, parking, storm drainage, information systems, and site improvements. Demolish the old control tower and 70-75 target emplacement berms. Supporting facilities include all construction outside the perimeter of the range complex and consist of information systems. Targetry will be funded by other project appropriations (OPA).

11. REQUIREMENT: 10 EA ADEQUATE: None SUBSTANDARD: 2 EA

PROJECT: Construct an automated Squad Automatic Weapon (SAW)/M-60 Machine Gun Transition Range for individual and crew qualification. (Current Mission)

REQUIREMENT: This project is required to provide new and improved training facilities for the 101st Airborne Division (Air Assault) and supporting units, as well as US Army Reserve and National Guard units that train at Fort Campbell. With the fielding of SAW now complete, Fort Campbell has a

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Campbell, Kentucky

4. PROJECT TITLE Machine Gun Transition Range	5. PROJECT NUMBER 24142

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Earthwork	CY	54,600	3.63	198
Site Improvement	LS	-	-	132
Storm Drainage	LS	-	-	18
Electrical Distribution	LS	-	-	246
Information Systems	LS	-	-	11
			Total	605

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) requirement to train 8,951 machine gunners and assistant gunners annually. The current capacity is 2,420 machine gunners per year, all under very austere conditions. The number of soldiers programmed to use this facility annually is 6,050, based on a firing schedule of 242 days per year with five firings per lane per day.

CURRENT SITUATION: Range 26, a two-lane machine gun transition range, is currently in use employing M31A1 targets and manual scoring procedures. Manual scoring is unreliable and very inefficient since one soldier is used to score one gunner. The current means of scoring also deprives the unit commander of the ability to analyze each soldier's range performance. Night fire scoring is even more wasteful of time since the scorer must walk downrange by flashlight. Range 26 is located 18 miles from the cantonment area and has no electric power. The new range will be within walking distance of the barracks. The present range has 75 target emplacements, all requiring manual set-up. Approximately 15 manhours are required to set up and prepare targets for firing and an equal amount of time to take down.

IMPACT IF NOT PROVIDED: If this project is not provided, use of inefficient manually-scored ranges will continue, resulting in lost training effort and improperly trained soldiers. Fort Campbell will not be able to meet its training requirement for SAW/M60 gunners.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Status Quo/Train at Other Installations. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($1,121 K) is recommended as more cost effective than Status Quo/Train at Other Installations ($4,956 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Campbell, Kentucky		
4. PROJECT TITLE Machine Gun Transition Range		5. PROJECT NUMBER 24142

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status:

(a) Design Start Date	Sep 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)	60
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	60
(c) Total Cost	120
(d) Contract	0
(e) In-house	120

(4) Construction Start Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Targetry Mechanisms	OPA	91	425
		TOTAL	425

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Knox Kentucky	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX 1.03

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1343	10815	4470	819	7409	1	35	89	94	25,075
B. END FY 95	1342	11224	4347	774	6136	1	35	89	94	24,042

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE	109,225 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	375,999
C. AUTHORIZATION NOT YET IN INVENTORY	25,714
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	25,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	24,730
F. PLANNED IN NEXT THREE YEARS	143,674
G. REMAINING DEFICIENCY	685,699
H. GRAND TOTAL	1,281,216

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	05922	Automated Field Fire Range	2,800	02/84	09/90
179	27809	Multi Purpose Range Complex - Heavy	22,600	05/89	09/90
		SUBTOTAL PROJECTS OVER $1M	25,400		
		TOTAL	25,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
800	Energy Monitoring and Control System	3,150
442	Medical Supply Warehouse	3,600
831	Sewage Treatment Plant	17,400
	SUBTOTAL PROJECTS OVER $1M	24,150
179	Combat Pistol Range Mod	580
	SUBTOTAL PROJECTS $1M & LESS	580
	TOTAL	24,730
B. PLANNED NEXT THREE PROGRAM YEARS :		
721	BARRACKS MODERNIZATION	31,000
	SUBTOTAL PROJECTS OVER $1M	31,000
	TOTAL	31,000

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Knox Kentucky

10. MISSION OR MAJOR FUNCTIONS:

Fort Knox houses the following: Headquarters Fort Knox, USA Armor School, USA Armor and Engineer Board, 1st and 4th Training Brigades, USAARMC Headquarters Commandant/Commander of Troops, 12th Cavalry Regiment, 194th Armored Brigade, Fort Knox MEDDAC, Fort Knox DENTAC, 46th AG Battalion(Reception), US Army Research Institute, Armor Research and Development Activity, U.S. Army Second ROTC Region, U.S. Army ROTC Cadet Command, USA Readiness Group Knox, Training Group, U.S. Army Information System Command, Logistical Assistance and Protection of Gold Depository, Det 5, 5th Weather Squadron (USAF), USA NCO Academy/Drill Sergeant School, U.S. Army Legal Services Agency, AMC Logistic Assistance Office - Fort Knox, Fort Knox District, Third Region, USACIDC, TRADOC Management Engineering Agency, U.S. Army TMDE Support Operation, Summer Training, Reserve and National Guard Training Support, Support of Civilian Components.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	15,338
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Knox, Kentucky	4. PROJECT TITLE Automated Record Fire Range

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 179	7. PROJECT NUMBER 5922	8. PROJECT COST ($000) Auth 2,800 Approp 2,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,398
IRETS AFF Range Facility	LS	-	-	(617)
Electrical Distribution	LS	-	-	(471)
Paving	LS	-	-	(147)
Storm Drainage	LS	-	-	(38)
Site Improvements	LS	-	-	(1,123)
Information Systems	LS	-	-	(2)
Supporting Facilities				135
Electric Service	LS	-	-	(30)
Site Improvement (0) Demolition (2)	LS	-	-	(2)
Information Systems	LS	-	-	(103)
Subtotal				2,533
Contingency (5.00%)				127
Total Contract Cost				2,660
Supervision, Inspection & Overhead (6.00%)				160
Total Request				2,820
Total Request (Rounded)				2,800
Installed Equipment - Other Appropriations				(281)

10. Description of Proposed Construction Construct and upgrade two existing train fire ranges for two standard-design Automated Field Fire (AFF) Ranges consisting of a total of 32 firing lanes. Each lane is 16 meters wide and displays three stationary targets from 75 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of two control towers, latrines, personnel storage building, renovation of existing storage building, two general instruction buildings, two ammunition breakdown buildings, two bleacher enclosures, two covered messes, two Lyster bag holders, two range flagpoles, maintenance trails, foxholes, stationary target emplacements, target boots, secondary power and data distribution system, information systems, site improvements, storm drainage, area and security lighting. Install an intrusion detection system (IDS). Demolish four temporary buildings (494 SF). Heating will be provided by fuel oil. Air conditioning (3 tons) will be provided in the control towers and one office area of the existing storage building. Supporting facilities include all construction outside the perimeter of the range complex, consisting of primary electrical distribution connections and communications. Targetry to be funded by other project appropriations (OPA).

11. REQUIREMENT: 5 EA ADEQUATE: None SUBSTANDARD: 5 EA

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Knox, Kentucky		
4. PROJECT TITLE Automated Record Fire Range		5. PROJECT NUMBER 5922

11. REQUIREMENT: (Continued)

PROJECT: Construct and upgrade two existing train fire ranges for two standard-design Automated Field Fire Ranges. (Current Mission)

REQUIREMENT: This project is required to provide the Armor Center and School and supported Active Army, Reserve and National Guard units with a permanent facility offering rifle field fire and night fire qualification live-fire training, and to establish standards for approved instructional programs and combat readiness.

CURRENT SITUATION: There are no current automated standardized range facilities available at Fort Knox for these training activities. Training is currently conducted on manually operated and scored M31A1 device supported ranges.

IMPACT IF NOT PROVIDED: If this project is not provided, the existing significant adverse impacts on training will continue. The initial entry training programs and military units will not be able to attain the degree of proficiency required by established Programs of Instruction for individual combat readiness.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria, "that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 13 March 1987.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Feb 84

(b) Percent Complete As Of 01 January 90 (BDGT YR)........ 99

(c) Percent Complete As Of 01 October 90 (PROG YR)........ 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Knox, Kentucky

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 167

(b) All Other Design Costs 97

(c) Total Cost 264

(d) Contract 29

(e) In-house 235

(4) Construction Start .... Feb 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Knox, Kentucky		
4. PROJECT TITLE Automated Record Fire Range		5. PROJECT NUMBER 5922

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
4 Range Control St	OPA	91	110
Inf Target Mechs	OPA	91	118
J-Box (Elect Bds)	OPA	91	51
IDS Equipment	OPA (K account)	91	2
		TOTAL	281

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Knox, Kentucky	4. PROJECT TITLE Multi Purpose Range Complex - Heavy

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 179	7. PROJECT NUMBER 27809	8. PROJECT COST ($000) Auth 22,600 Approp 22,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				16,779
Multi-Purpose Range Complex, Hea	LS	-	-	(16775)
Information Systems	LS	-	-	(4)
Supporting Facilities				3,527
Electric Service	LS	-	-	(1,542)
Water, Sewer & Gas	LS	-	-	(25)
Paving, Walks, Curbs & Gutters	LS	-	-	(341)
Site Improvement (1165) Demolition (6)	LS	-	-	(1,171)
Information Systems	LS	-	-	(448)
Subtotal				20,306
Contingency (5.00%)				1,015
Total Contract Cost				21,321
Supervision, Inspection & Overhead (6.00%)				1,279
Total Request				22,600
Total Request (Rounded)				22,600
Installed Equipment - Other Appropriations				(1,996)

10. Description of Proposed Construction Construct and upgrade a Multi-Purpose Range Complex, (MPRC) Heavy, consisting of three lanes at Yano Tank Range. Each lane of the range will contain 51 stationary and 15 moving infantry targets, four moving and 20 stationary armor targets, 15 hostile fire simulators, four two-man foxholes, and eight deflaid and two battle positions. Primary facilities are located inside the perimeter of the range complex and consist of control building (replaces existing control tower), ammunition dock, range operation, maintenance, general instruction, and ammunition breakdown buildings, install an intrusion detection system (IDS), covered mess, latrine, bleacher enclosure, Lyster bag holders, vehicular holding and maintenance area, vehicle staging and parking area, helipads, range flagpole, tent pads, storm drainage, paving, walks, tank trails, information systems, secondary power and data distribution system, service roads with bridge, limit markers, berms, and site improvements. A road right-of-way easement(s) will be purchased for the construction of the access road to the range. Demolish four buildings (4,509 SF) and four moving target systems. Heating will be provided by a self-contained system, and air conditioning (1 ton) will be provided in the control building and one office area. Supporting facilities include all construction outside the range complex perimeter and consist of replacing

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Knox, Kentucky		
4. PROJECT TITLE Multi Purpose Range Complex - Heavy		5. PROJECT NUMBER 27809

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued) approximately three miles of entrance road, electrical and water distribution, communications line upgrade, fire protection and alarm systems, security fencing, information systems, and site improvements. High supporting facility costs are due to replacing the entrance road, and installing a new communications line from the cantonment area. Yano Tank Range is located in a flood plain with an infrequent history of flooding. Dud clearance is required. Targetry will be funded by other project appropriations (OPA).

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct and upgrade a Multi-Purpose Range Complex, Heavy. (Current Mission)

REQUIREMENT: This project is required to provide the active Army, Reserve and National Guard units with a safe live-fire training range complex capable of supporting tank, Bradley Fighting Vehicle, and helicopter gunnery requirements on a range which can provide varied scenarios of combat situations.

CURRENT SITUATION: There are no range facilities available at Fort Knox, the "Home of Armor", capable of supporting all standard live-fire training requirements for the M1 series tank, Bradley Fighting Vehicle and attack helicopters. Effective training in stabilized gunnery for the M1, M1A1 and M3, and collective live-fire training cannot be conducted. Live-fire training is manually scored and inflexible in presentation, and standardization in training cannot be fully established. In addition, the existing range entrance road is unsafe and has resulted in numerous personnel injuries and damaged equipment.

IMPACT IF NOT PROVIDED: If this project is not provided, troops will continue to train on inadequate, obsolete facilities which result in degraded training. Armor School graduates will not be trained to established standards prior to insertion into the field and armor, cavalry and attack helicopter units will not be trained to the degree of proficiency required for combat. Cost effectiveness and standardization of training will not be realized. Existing safety hazards will continue.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... May 89

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Knox, Kentucky		
4. PROJECT TITLE Multi Purpose Range Complex - Heavy		5. PROJECT NUMBER 27809

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used Initial Use

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 600

(b) All Other Design Costs 510

(c) Total Cost 1,110

(d) Contract 800

(e) In-house 310

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Target Mechanisms	OPA	91	1981
Information Sys Eq	OPA	91	14
IDS Equipment	OPA	91	1
		TOTAL	1,996

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Maryland		Aberdeen Proving Ground (AMC)			163
	62	Security Upgrade	1,700	1,700	165
	266	Toxicology Research Facility	33,000	33,000	167
	1752	Relocate/Modernize Fire Barricades	10,400	10,400	170
		SUBTOTAL Aberdeen Proving Ground PART I	$ 45,100	45,100	
		Fort Detrick (HSC)			173
	11766	Storage Facility Addition	530	530	175
		SUBTOTAL Fort Detrick PART I	$ 530	530	
		* TOTAL MCA FOR Maryland	$ 45,630	45,630	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Aberdeen Proving Ground Maryland	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX .91

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	704	2136	8393	324	3512	53	179	225	133	15,659
B. END FY 95	688	2195	8038	290	3076	32	192	247	155	14,913

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE	72,518 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89		337,566
C. AUTHORIZATION NOT YET IN INVENTORY		148,807
D. AUTHORIZATION REQUESTED IN THIS PROGRAM		45,100
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM		35,700
F. PLANNED IN NEXT THREE YEARS		138,200
G. REMAINING DEFICIENCY		500,212
H. GRAND TOTAL		1,205,585

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
880	00062	Security Upgrade	1,700	11/88	05/90
315	01752	Relocate/Modernize Fire Barricades	10,400	04/89	09/90
310	0266	Toxicology Research Facility	33,000	06/85	05/91
		SUBTOTAL PROJECTS OVER $1M	45,100		
		TOTAL	45,100		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92):		
171	Applied Instruction Facility	12,400
216	Ammunition Demilitarization Facility	19,100
371	Upgrade Range Complex	4,200
	SUBTOTAL PROJECTS OVER $1M	35,700
	TOTAL	35,700
B. PLANNED NEXT THREE PROGRAM YEARS:		
310	ENCLOSED RANGE FACILITY	33,000
	SUBTOTAL PROJECTS OVER $1M	33,000
	TOTAL	33,000

10. MISSION OR MAJOR FUNCTIONS:

The Aberdeen Area of Aberdeen Proving Ground serves as the location of the installation headquarters. The focus of major missions undertaken at the installation include basic research.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Aberdeen Proving Ground Maryland

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

testing and evaluation of ordnance and equipment, and the training of military personnel in supply and maintenance of ordnance and equipment. The Edgewood Area of Aberdeen Proving Ground provides research and development in the chemical, biological, and radiological areas.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland	4.PROJECT TITLE Security Upgrade

5.PROGRAM ELEMENT 72896A	6.CATEGORY CODE 880	7.PROJECT NUMBER 62	8.PROJECT COST ($000) Auth 1,700 Approp 1,700

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				802
Security Lighting	EA	18	7,500	(135)
Roads	SY	19,400	16.70	(324)
Security Fencing	LF	12,800	19.53	(250)
Information Systems	LS	-	-	(50)
IDS Installation	EA	18	2,389	(43)
Supporting Facilities				746
Electric Service	LS	-	-	(52)
Site Improvement	LS	-	-	(164)
Information Systems	LS	-	-	(330)
Dud Clearance (10 AC)	LS	-	-	(200)
Subtotal				1,548
Contingency (5.00%)				77
Total Contract Cost				1,625
Supervision, Inspection & Overhead (6.00%)				98
Total Request				1,723
Total Request (Rounded)				1,700
Installed Equipment - Other Appropriations				(51)

10.Description of Proposed Construction Upgrade security protection for 18 igloos required for Category I and II munitions storage. Install intrusion detection system (IDS), roads, security fencing and exterior security lights. Supporting facilities include electric service, information systems, and site improvements, including clearance of unexploded ordnance items undetected by prior screenings.

11. REQUIREMENT: 45 EA ADEQUATE: 27 EA SUBSTANDARD: 18 EA

PROJECT: Upgrade security protection for sensitive munitions storage. (Current Mission)

REQUIREMENT: This project is required to provide minimum security protection of structures where sensitive Category I and II arms, ammunitions, and explosives (AAE) are stored.

CURRENT SITUATION: Storage structures currently lack IDS, security fencing, and security lighting required for storage of Category I and II AAE. The main storage area is within 1,100 feet of unpatrolled, unprotected shoreline adjacent to the Chesapeake Bay navigation channel. Continued storage is permitted only under security waiver requiring increased patrol activity and frequent physical inspection of each igloo to detect unauthorized access.

IMPACT IF NOT PROVIDED: If this project is not provided, storage locations

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland		
4. PROJECT TITLE Security Upgrade		5 PROJECT NUMBER 62

11. REQUIREMENT: (Continued)
IMPACT IF NOT PROVIDED: (Continued)
will remain susceptible to unauthorized access. The possibility that unauthorized personnel might elude patrols and reach and enter storage igloos without detection heightens the potential for theft, diversion, or significant incident involving sensitive, highly destructive, man-portable munitions items, with accompanying adverse public reaction and a potential for material damage and personnel injury.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that was in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Nov 88
(b) Percent Complete As Of 01 January 90 (BDGT YR) 80
(c) Percent Complete As Of 01 October 90 (PROG YR) 100
(d) Design Complete Date .... May 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 120
(b) All Other Design Costs 87
(c) Total Cost 207
(d) Contract 47
(e) In-house 160

(4) Construction Start .... Nov 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	51
		TOTAL	51

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland	4. PROJECT TITLE Toxicology Research Facility

5. PROGRAM ELEMENT 72896A	6. CATEGORY CODE 310	7. PROJECT NUMBER 266	8. PROJECT COST ($000) Auth 33,000 Approp 33,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				28,676
Toxicology Research Facility	SF	118,807	239.17	(28,415)
Information Systems	LS	-	-	(217)
IDS Installation	LS	-	-	(44)
Supporting Facilities				841
Electric Service	LS	-	-	(135)
Water, Sewer & Gas	LS	-	-	(20)
Steam, Chilled Water & Heat Distribution	LS	-	-	(106)
Paving, Walks, Curbs & Gutters	LS	-	-	(53)
Storm Drainage	LS	-	-	(26)
Site Improvement (15) Demolition (137)	LS	-	-	(152)
Information Systems	LS	-	-	(130)
Perimeter Security	LS	-	-	(219)
Subtotal				29,517
Contingency (5.00%)				1,476
Total Contract Cost				30,993
Supervision, Inspection & Overhead (6.00%)				1,860
Total Request				32,853
Total Request (Rounded)				33,000
Installed Equipment - Other Appropriations				(293)

10. Description of Proposed Construction Construct a toxicology research facility to include inhalation research areas, change rooms, cage washer area, percutaneous and general hazard evaluation, acute and sub-acute inhalation, aquatic research, general storage, entry control facility, general chemical laboratories, nontoxic areas and data analysis office. Project includes vermin proof floors, walls and mechanical systems, rubberized plastic floors, water supply, 3,750 KVA transformer and expand 34.5 KVA substation, environmentally compliant toxic air filtration and exhaust systems, and a liquid waste system. Relocate existing wind tunnels. Install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, storm drainage, perimeter security, fire protection and alarm systems, information systems, sanitary sewer, and site improvements. Air conditioning (500 tons) will be provided with 100 percent makeup air in research areas. Heating will be provided from an existing oil-fired central heating plant. Special foundations and flooring are required because of the raised structure. Demolish four buildings (12,685 SF).

11. REQUIREMENT: 239,958 SF ADEQUATE: 57,716 SF SUBSTANDARD: 63,435 SF

PROJECT: Construct a toxicology research facility. (Current Mission)

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland		
4.PROJECT TITLE Toxicology Research Facility		5 PROJECT NUMBER 266

11. REQUIREMENT: (Continued)

REQUIREMENT: This project is required to provide safe and adequate facilities for research to determine hazards associated with exposure to chemical materials. The facility will meet all environmental safety surety and security regulations and laws. Materials involved include simulants, screening smoke, smoke mixtures, dyes, decontaminates, riot control materials, training agents, manufacturing intermediates, breakdown products, chemicals used in detector kits, and mask filter materials. The facility is also required to conduct leakage or protective value research of masks, filters, shelters, clothing, or other protective devices. The facility is required to support product development research, not field testing of production items.

CURRENT SITUATION: Present facilities are not adequate for mission needs and do not meet requirements of regulations, occupational safety and health, safety and surety for toxic agent use, good laboratory practices, and environmental protection practices. Present inhalation exposure facilities cannot be used with certain materials because surety and safety constraints prohibit threat-level exposures. Existing facilities cannot be used with hazardous chemicals because of environmental restrictions arising from the lack of holding tanks, adequate filtration systems, approved chemical hoods, or backup power equipment. The facilities preclude inhalation studies of threat and surety compounds to meet mission requirements. The existing facilities do not have the capability to perform health hazard evaluation studies due to the lack of post-exposure holding rooms, temperature and humidity control, clean/dirty corridor systems, or worker clothing change and shower facilities.

IMPACT IF NOT PROVIDED: If this project is not provided, serious restrictions will remain in effect on the research capabilities of the Toxicology Division by the inability to comply with federal and state laws, and Army regulations, lack of proper laboratories to perform specialized toxicological procedures and to develop new techniques, lack of laboratories designed to study the most toxic of compounds, and lack of adequate facilities for the storage and preparation of test materials. Each of these restrictions has a direct bearing on the Army's ability to provide information on the effects of chemical defense materials and systems which support the soldier in the field. Additionally, this information is necessary to ensure the safety of Army developers, the civilian community, and the environment. These serious restricitons can be eliminated by providing a state-of-the-art, fully compliant facility.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland		
4. PROJECT TITLE Toxicology Research Facility		5. PROJECT NUMBER 266

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jun 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 40
(d) Design Complete Date .... May 91

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a)	Production of Plans and Specifications	696
(b)	All Other Design Costs	209
(c)	Total Cost	905
(d)	Contract	715
(e)	In-house	190

(4) Construction Start .... Sep 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	92	198
IDS Equipment	OPA	92	25
Computer Access Card System	OPA	92	35
Closed Cir TV Sys	OPA	92	35
		TOTAL	293

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland	4. PROJECT TITLE Relocate/Modernize Fire Barricades

5. PROGRAM ELEMENT 72896A	6. CATEGORY CODE 315	7. PROJECT NUMBER 1752	8. PROJECT COST ($000) Auth 10,400 Approp 10,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				8,408
Firing Barricades	SF	28,470	169.72	(4,832)
Control & Instrumentation Bldgs.	SF	3,402	288.07	(980)
Ammo. Conditioning Cells	EA	3	857,333	(2,572)
IDS Installation	LS	-	-	(20)
Information Systems	LS	-	-	(4)
Supporting Facilities				1,019
Electric Service	LS	-	-	(212)
Water, Sewer & Gas	LS	-	-	(52)
Paving, Walks, Curbs & Gutters	LS	-	-	(381)
Storm Drainage	LS	-	-	(254)
Site Improvement (4) Demolition (111)	LS	-	-	(115)
Information Systems	LS	-	-	(5)
Subtotal				9,427
Contingency (5.00%)				471
Total Contract Cost				9,898
Supervision, Inspection & Overhead (6.00%)				594
Total Request				10,492
Total Request (Rounded)				10,400
Installed Equipment - Other Appropriations				(929)

10. Description of Proposed Construction Construct three firing barricade facilities (FBF), each providing a semi-enclosed gun position with overhead crane, a control and instrumentation building, and four ammunition conditioning cells. Interconnect facilities at each FBF with covered walkways and roads, install an intrusion detection systems (IDS). Supporting facilities include utilities, electric service, fire protection and alarm systems, information systems, parking, paving, walks, curbs and gutters, storm drainage and site improvements. Demolish four permanent buildings (9,099 SF), which are massive reinforced concrete structures. Heating will be provided by individual oil-fired heat unit, and individual air conditioners (15 tons).

11. REQUIREMENT: 36,870 SF ADEQUATE: None SUBSTANDARD: 9,099 SF

PROJECT: Construct three firing barricade facilities. (Current Mission)

REQUIREMENT: This project is required to provide adequate and safe fixed firing positions for test firing experimental-large caliber guns and ammunition items, and for conducting production-acceptance testing of these items on a year-round basis. Positions are limited to direct-fire weapons to reduce explosive-quantity hazard to nearby occupied areas, but hardened partial enclosures at each position are required to contain, redirect, or attenuate blast noise and associated shock overpressures, and to contain or

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland		
4. PROJECT TITLE Relocate/Modernize Fire Barricades		5. PROJECT NUMBER 1752

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
divert fragments from any inadvertant explosion, any of which might otherwise hazard uninvolved personnel in nearby occupied areas, or damage nearby structures. Department of Defense Explosives Safety Board (DDESB) approval was obtained 27 January 1987.

CURRENT SITUATION: Existing FBF were built in the late 1920s and are incompatable with drastic changes in artillery and ammunition occuring since then. More powerful explosives, larger charges, and higher chamber pressures result in greater blasts and overpressures. Continuous firings have weakened barricades and increased gun sizes and charges have exceeded FBF design containment capacity. Existing facilities do not provide an adequate environment for computers and the electronic and optical instrumentation essential to current testing, exposing costly and sensitive equipment to blast or fragmentation damage and requiring frequent recalibration and lengthy set-up times. Current operations expose nearby (400 feet) buildings to structural damage from repeated blast shocks, and uninvolved personnel in nearby administrative and community service areas are subjected to potentially harmful noise levels from continuous test firings. Existing FBF operations are constrained by explosive quantity-distance limitations and operations continue only under explosive safety waiver. The existing waiver expired 31 December 1989, and requires renewal.

IMPACT IF NOT PROVIDED: If this project is not provided, testing under present conditions will continue, with continuing damage to adjacent structures and exposure of uninvolved personnel to hazards and possible injuries. Reduced productivity and efficiency due to test operational constraints will continue, with some requirements delayed and others precluded by inadequate facilities and unacceptable safety risks.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Apr 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	40
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Aberdeen Proving Ground, Maryland

4. PROJECT TITLE Relocate/Modernize Fire Barricades	5. PROJECT NUMBER 1752

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	380
(b) All Other Design Costs	130
(c) Total Cost	510
(d) Contract	445
(e) In-house	65

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	12
Information Sys Eq	OPA	91	17
9 Temp Cond Units	RDTE	91	900
		TOTAL	929

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Port Detrick Maryland	4. COMMAND US Army Health Services Command	5. AREA CONSTRUCTION COST INDEX .95

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	219	586	1201	1	0	0	29	6	1614	3,656
B. END FY 95	248	690	1525	1	0	0	29	6	1614	4,113

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	1,153 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..	90,641
C. AUTHORIZATION NOT YET IN INVENTORY......................................	8,143
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..................................	530
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..............................	2,900
F. PLANNED IN NEXT THREE YEARS..	132,000
G. REMAINING DEFICIENCY...	31,188
H. GRAND TOTAL..	265,402

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
442	11766	Storage Facility Addition	530	07/84	03/90
		SUBTOTAL PROJECTS $1M & LESS	530		
		TOTAL	530		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
610	Medical Logistics Facility Addition	2,900
	SUBTOTAL PROJECTS OVER $1M	2,900
	TOTAL	2,900
B. PLANNED NEXT THREE PROGRAM YEARS		
310	Medical Laboratory Operation Addn	111,000
610	R&D CONTROL HQ	21,000
	SUBTOTAL PROJECTS OVER $1M	132,000
	TOTAL	132,000

10. MISSION OR MAJOR FUNCTIONS:

The US Army Garrison, Fort Detrick, provides convential installation and mission unique support to DoD and non-DoD organizations engaged in: medical and botonical research and development, medical intelligence, medical logistics and global telecommunications. Major tenant activities include: US Army Medical Research and Development Command, US Army Medical Research Institute of Infectious Diseases, US Army Biomedical Research and Development Laboratory, National Cancer

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Detrick Maryland

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

Institute, US Department of Agriculture, Armed Forces Medical Intelligence Center, Defense Medical Standarization Board, Air Force Medical Logistics Office, Naval Medical Materiel Support Command, US Army Medical Materiel Agency, and the US Army Information Systems Command - East Coast Telecommunications Center.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Detrick, Maryland	4. PROJECT TITLE Storage Facility Addition

5. PROGRAM ELEMENT 87796A	6. CATEGORY CODE 442	7. PROJECT NUMBER 11766	8. PROJECT COST ($000) Auth 530 Approp 530

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				460
USAMRIID Medical Storage Fac	SF	6,500	70.77	(460)
Supporting Facilities				18
Electric Service	LS	-	-	(5)
Water, Sewer & Gas	LS	-	-	(1)
Paving, Walks, Curbs & Gutters	LS	-	-	(4)
Storm Drainage	LS	-	-	(4)
Site Improvement (2) Demolition (2)	LS	-	-	(4)
Subtotal				478
Contingency (5.00%)				24
Total Contract Cost				502
Supervision, Inspection & Overhead (6.00%)				30
Total Request				532
Total Request (Rounded)				530
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a central storage facility addition for necessary laboratory animal care supplies and equipment (cages, racks, bedding and food), bulk supplies used in high-hazard biomedical research laboratories, and required equipment not in immediate use. Heating will be provided by a central steam plant. The facility will provide a mezzanine for laboratory equipment and match with the existing building's overhead utility core. Supporting facilities include extension of utilities, storm drainage and a sprinkler system; fire and smoke detectors will activate building alarm and central alarm systems. Construction costs may be proportionately high as this facility will adjoin a high-containment biological laboratory.

11. REQUIREMENT: 6,500 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a central storage facility for the US Army Medical Research Institute of Infectious Diseases (USAMRIID). (Current Mission)

REQUIREMENT: This project is required to provide central storage for "stand-by" research equipment; storage of essential "rapid-turnover" supplies used in the high-hazard research laboratories; to retain accreditation for use of laboratory animals to meet laboratory on-hand requirements for emergency (minus 70 degrees) freezer equipment; and to minimize the damage to sensitive, expensive equipment due to transportation from storage elsewhere on post.

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Detrick, Maryland		
4. PROJECT TITLE Storage Facility Addition		5. PROJECT NUMBER 11766

11. REQUIREMENT: (Continued)

CURRENT SITUATION: There is no central storage capability. Present storage for research divisions is located in the laboratories and in numerous other small areas, all of which are fully utilized and cannot be expanded. High density storage in high-hazard laboratories has seriously increased the likelihood of a laboratory accident that compromises safety and risks potential life-threatening exposure to high-hazard agents. Animal bedding, food and care equipment are stored in corridors due to lack of sufficient and appropriate space. Overflow storage is presently maintained in hallways, mechanical rooms, stairwells, and other areas resulting in conditions which damage equipment, impede mission, and jeopardize laboratory animal accreditation (The American Association for Accreditation of Laboratory Animal Care, AAALAC).

IMPACT IF NOT PROVIDED: If this project is not provided, research supplies and equipment will continue to be stored in hallways and stairwells, with possible damage resulting; research progress will slow due to the inefficiencies and conflicts that result from improper space utilization; and the entire research program will continue to be jeopardized with the likely loss of facility accreditation for laboratory animal use.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jul 84
(b) Percent Complete As Of 01 January 90 (BDGT YR)	85
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Mar 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	13.5
(b) All Other Design Costs	29
(c) Total Cost	42
(d) Contract	16.8
(e) In-house	26.2

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Detrick, Maryland		
4. PROJECT TITLE Storage Facility Addition		5. PROJECT NUMBER 11766

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Dec 90 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Missouri		Fort Leonard Wood (TRADOC)				181
	3348	Physical Fitness Training Center		8,800	8,800	183
	33008	Applied Instruction Facility		900	900	186
		SUBTOTAL Fort Leonard Wood PART I	$	9,700	9,700	
		* TOTAL MCA FOR Missouri	$	9,700	9,700	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leonard Wood Missouri	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .92

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	761	5047	2563	31	10261	0	18	132	2278	21,091
B. END FY 95	840	5491	2455	564	9544	0	18	132	2278	21,322

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 62,911 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89..............................	525,433
C. AUTHORIZATION NOT YET IN INVENTORY..............................	81,782
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	9,700
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..............................	11,810
F. PLANNED IN NEXT THREE YEARS..............................	44,484
G. REMAINING DEFICIENCY..............................	674,529
H. GRAND TOTAL..............................	1,347,738

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
740	03348	Physical Fitness Training Center	8,800	03/86	07/90
		SUBTOTAL PROJECTS OVER $1M	8,800		
171	33008	Applied Instruction Facility	900	12/89	10/90
		SUBTOTAL PROJECTS $1M & LESS	900		
		TOTAL	9,700		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
610	Administration Building	9,700
422	Ammunition Storage	1,800
	SUBTOTAL PROJECTS OVER $1M	11,500
800	CHILLED WATER STORAGE	310
	SUBTOTAL PROJECTS $1M & LESS	310
	TOTAL	11,810
B. PLANNED NEXT THREE PROGRAM YEARS :		
171	APPLIED INSTRUCTION FACILITY	10,200
171	DINING FACILITY	9,200
	SUBTOTAL PROJECTS OVER $1M	19,400
	TOTAL	19,400

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Leonard Wood Missouri

10. MISSION OR MAJOR FUNCTIONS:

Provides support and facilities for a US Army Training Center, US Army Engineer School, US Army Reception Station, US Army Hospital, major combat and combat support forces and other tenant activities. Supports Reserve Components and other satellited activities and units.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Leonard Wood, Missouri	4. PROJECT TITLE Physical Fitness Training Center

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 3348	8. PROJECT COST ($000) Auth 8,800 Approp 8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,202
Physical Fitness Training Center	SF	75,300	95.21	(7,169)
Information Systems	LS	-	-	(33)
Supporting Facilities				719
Electric Service	LS	-	-	(127)
Water, Sewer & Gas	LS	-	-	(37)
Paving, Walks, Curbs & Gutters	LS	-	-	(258)
Storm Drainage	LS	-	-	(18)
Site Improvement (178) Demolition (75)	LS	-	-	(253)
Information Systems	LS	-	-	(17)
Fuel Oil Storage Tank	LS	-	-	(9)
Subtotal				7,921
Contingency (5.00%)				396
Total Contract Cost				8,317
Supervision, Inspection & Overhead (6.00%)				499
Total Request				8,816
Total Request (Rounded)				8,800
Installed Equipment - Other Appropriations				(33)

10. Description of Proposed Construction Construct a Department of the Army (DA) standard-definitive design physical fitness training center including gymnasiums, eight handball and racquetball courts, swimming pool, exercise facilities, administrative and storage areas. Supporting facilities include utilities, electric service, and exterior electrical power line upgrade, fire protection and alarm systems, paving, walks, curbs and gutters, storm drainage, fuel oil storage tank, information systems, site improvements. Access for the handicapped will be provided. Air conditioning (40 tons) will be provided by a self-contained system for administrative area. Mechanical ventilation: 407,000 CFM. Demolish 18 temporary buildings (59,446 SF) including asbestos.

11. REQUIREMENT: 188,000 SF ADEQUATE: 78,059 SF SUBSTANDARD: 47,886 SF

PROJECT: Construct a DA standard-definitive design physical fitness training center. (Current Mission)

REQUIREMENT: This project is required to support the individual soldier's need to maintain personal fitness and to train engineer soldiers through athletic training, physical conditioning, competitive sports, and drownproofing training. Engineer activities such as bridging and dredging involve working in and around water, so engineers must receive drownproofing

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION
Fort Leonard Wood, Missouri

4. PROJECT TITLE
Physical Fitness Training Center

5. PROJECT NUMBER
3348

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
training and be certified in drownproofing each year.

CURRENT SITUATION: An inadequate World War II vintage field house and four brigade gymnasiums are the only facilities available for physical fitness training. The field house is too small to support total requirements. It contains four makeshift locker rooms which require constant maintenance and additional lockers are needed. The female soldiers' makeshift locker room is crammed into a corner of the gymnasium, and the weight training area is in hallways. There is not enough room to support both organized group programs and individual programs at the same time. The brigade gymnasiums are used constantly by the brigades for the training of new soldiers. Since there are no enclosed swimming pools on the installation which can be used for year round training and no indoor swimming pools within 25 miles of Fort Leonard Wood, drownproof training cannot be done during the winter or inclement weather. Approximately 150-200 soldiers per day are trained in drownproofing in an outside pool when weather permits.

IMPACT IF NOT PROVIDED: If this project is not provided, Fort Leonard Wood will be unable to satisfactorily support the Army's requirement for individual physical fitness and will not be able to properly train every engineer soldier in the lifesaving skill of drownproofing. The result is that there will be engineer soldiers that are sent to units who must needlessly risk their lives because they are not properly and fully trained.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Mar 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)	65
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jul 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Initial Use

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications	223
(b) All Other Design Costs	70

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leonard Wood, Missouri		
4. PROJECT TITLE Physical Fitness Training Center		5. PROJECT NUMBER 3348

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(c) Total Cost	293
(d) Contract	0
(e) In-house	293
(4) Construction Start	Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	33
		TOTAL	33

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Leonard Wood, Missouri	4. PROJECT TITLE Applied Instruction Facility

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 171	7. PROJECT NUMBER 33008	8. PROJECT COST ($000) Auth 900 Approp 900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				726
Applied Instruction Building	SF	9,413	76.71	(722)
Information Systems	LS	-	-	(4)
Supporting Facilities				80
Electric Service	LS	-	-	(12)
Water, Sewer & Gas	LS	-	-	(6)
Paving, Walks, Curbs & Gutters	LS	-	-	(10)
Storm Drainage	LS	-	-	(8)
Site Improvement	LS	-	-	(31)
Information Systems	LS	-	-	(7)
EMCS Connection	LS	-	-	(6)
Subtotal				806
Contingency (5.00%)				40
Total Contract Cost				846
Supervision, Inspection & Overhead (6.00%)				51
Total Request				897
Total Request (Rounded)				900
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a training complex to include classroom space and laboratories. Connect to the energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, fire protection and alarm systems, paving, walks, curbs and gutters, fencing, storm drainage, information systems, and site improvements. Heating and air conditioning (18 tons) will be provided by self-contained systems. Access for the handicapped will be provided.

11. REQUIREMENT: 401,696 SF ADEQUATE: 355,395 SF SUBSTANDARD: None

PROJECT: Construct an applied instruction building. (New Mission)

REQUIREMENT: This project is required in conjunction with the Base Closure Army (BCA) program, Project Number 10291 "Motor Transport Operators Course (MTOC)". This project will provide classrooms and laboratories to support the existing training load for the MTOC. This course is required for driver training instruction for the operations of the 3/4 to 5-ton trucks and tractor trailer units both in highway and combat operations. This course requires facilities for 613 students, 98 instructors and 128 support personnel along with 557 units of equipment. This project is necessary to provide compatible training facilities which will be equal to that provided by Fort Leonard Wood's expanded mission for training motor transport operators as a result of

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leonard Wood, Missouri		
4. PROJECT TITLE Applied Instruction Facility		5. PROJECT NUMBER 33008

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
the recent base closure and realignment actions approved by Congress.

CURRENT SITUATION: There are no permanent or semi-permanent facilities which will provide compatible training to support the existing training load.

IMPACT IF NOT PROVIDED: If this project is not provided in conjunction with BCA Project 10291, adequate compatible facilities will not be available to provide equivalent training of personnel. The two projects must be executed concurrently. There are no semi-permanent facilities or permanent facilities available that can be made adequate for this purpose. Use of interim facilities either on-post or leased locally is not an option. The existing training load will continue the use of overcrowded and temporary wooden training facilities.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An ecomonic analysis has been prepared comparing New Construction to Lease Off Post and Renovation. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New construction ($642 K) is recommended as more cost effective than Lease Off Post ($1,471 K) and Renovation ($1,891 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Dec 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	5
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Oct 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e)

	($000)
(a) Production of Plans and Specifications	48
(b) All Other Design Costs	15
(c) Total Cost	63
(d) Contract	48
(e) In-house	15

(4) Construction Start .... Feb 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Leonard Wood, Missouri		
4. PROJECT TITLE Applied Instruction Facility		5. PROJECT NUMBER 33008

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
New York		Fort Drum (FORSCOM)				191
	14232	Central Wash Facility		8,800	8,800	193
	28270	General Instruction Building		608	608	196
		SUBTOTAL Fort Drum PART I	$	9,408	9,408	
		* TOTAL MCA FOR New York	$	9,408	9,408	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Drum New York	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.16

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1140	9272	1439	0	0	0	10	54	273	1[illegible],188
B. END FY 95	1175	9566	1609	0	100	0	10	54	273	12,787

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	107,265 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	105,258
C. AUTHORIZATION NOT YET IN INVENTORY	680,840
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	9,408
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
F. PLANNED IN NEXT THREE YEARS	323,372
G. REMAINING DEFICIENCY	1,960,824
H. GRAND TOTAL	3,079,702

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	14232	Central Wash Facility	8,800	01/86	09/90
		SUBTOTAL PROJECTS OVER $1M	8,800		
171	28270	General Instruction Building	608	05/90	09/90
		SUBTOTAL PROJECTS $1M & LESS	608		
		TOTAL	9,408		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A.	INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE	
B.	PLANNED NEXT THREE PROGRAM YEARS :	
211	10th Mountain Div Facilities-Phase IV	70,000
111	FIXED WING RUNWAY	65,000
214	Tactical Equipment Shops	20,000
211	Aircraft Maintenance Hangar	17,000
	SUBTOTAL PROJECTS OVER $1M	172,000
	TOTAL	172,000

10. MISSION OR MAJOR FUNCTIONS:

Training and support of a Light Infantry Division. Provide support to Reserve Component Training.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Drum New York

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Drum, New York	4. PROJECT TITLE Central Wash Facility

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 14232	8. PROJECT COST ($000) Auth 8,800 Approp 8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,943
Winter Wash Facility	SF	7,200	124.03	(893)
Control Building	SF	180	238.89	(43)
HVAC Systems	SF	7,380	76.96	(568)
Plumbing	SF	7,380	26.69	(197)
Electrical	SF	7,380	53.79	(397)
See Cost Estimates (Continued)				(4,845)
Supporting Facilities				1,007
Electric Service	LS	-	-	(484)
Water, Sewer & Gas	LS	-	-	(332)
Storm Drainage	LS	-	-	(60)
Site Improvement	LS	-	-	(114)
Information Systems	LS	-	-	(17)
Subtotal				7,950
Contingency (5.00%)				398
Total Contract Cost				8,348
Supervision, Inspection & Overhead (6.00%)				501
Total Request				8,849
Total Request (Rounded)				8,800
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design central vehicle wash facility consisting of a two-lane wheeled and tracked vehicle bath, with 15 hose stations and wash water recycling and treatment system, control building, heating, ventilating and air conditioning systems, roads, access roads, waste oil storage tank and pit. A special winterized facility will be required in addition to normal exterior washrack. The winterized facility will include a warming building which provides space for preparation area, washing and drip-dry or blow-dry area, all maintained above freezing. The washing facilities will consist primarily of high-pressure, low-flow, hot water washers. The site is located directly off the tank trail which leads out to the range and training areas. The access road cost is high due to the site being 2.5 miles from the nearest paved road which leads back to the cantonment vehicle maintenance areas. Supporting facilities include utilities, electric service, lighting, walks, curbs and gutters, latrines, information systems, site improvements, grit separators and gravity oil separators. Heating will be provided by a self-contained system.

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: 1 EA

PROJECT: Construct a standard-design central vehicle wash facility. (Current Mission)

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Drum, New York		
4. PROJECT TITLE Central Wash Facility		5. PROJECT NUMBER 14232

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Vehicle Bath	EA	2	243,000	486
Wash Island w/ Hose Tower	EA	13	19,000	247
Sedimentation Basin & Pumps	LS	-	-	1,054
Valve Pits	EA	5	38,800	194
Pressure Relief Valve Pits	EA	2	13,000	26
Yard Piping	LF	6,600	38.94	257
Waste Oil Storage Tank & Pit	LS	-	-	28
Equalization Basin	LS	-	-	141
Sand Filter	LS	-	-	419
Wash Water Supply Basin & Pump	LS	-	-	274
Road/Access Road	SY	34,000	34.56	1,175
Earthwork/Grading	CY	77,500	7.01	543
Information Systems	LS	-	-	1
			Total	4,845

REQUIREMENT: This project is required to provide a safe, efficient, environmentally sound facility for the year round washing of both tactical and non-tactical vehicles.

CURRENT SITUATION: The existing vehicle washing complex consists of six individual wash pads that were constructed at different times over a 26-year period. In December 1980, two of these pads were constructed with a closed-loop wash water recirculation system. In subsequent years, the remaining pads were tied into this system. The total complex has to be shut down during the winter months due to the freezing temperatures which can damage the water lines. In addition, the cold temperatures make it impractical to wash vehicles outside. Major deficiencies within the system include undersized pads and drainage collection swales, drainage grates that plug easily and a retention pond that overfows during periods of heavy rain. The existing system lacks an equalization basin where sediments will drop out of the wash water prior to recirculation and there is no oil and grease removal system. The overall quality of the recycled wash water is poor, and the vehicles remain unclean after washing. The present facility cannot support the vehicle densities resulting from the stationing of an active division in addition to the existing National Guard and Reserve Annual Training Support Mission.

IMPACT IF NOT PROVIDED: If this project is not provided, the present wash complex will not be capable of adequately cleaning vehicles, which will result in increased maintenance requirements and accelerated deterioration of parts, in particular, metal body components. Additionally, valuable training time will be lost due to the inefficient design of the existing facility and resultant delays in processing vehicles through the system.

ADDITIONAL: This project has been coordinated with the installation

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Drum, New York		
4. PROJECT TITLE Central Wash Facility		5. PROJECT NUMBER 14232

11. REQUIREMENT: (Continued)

ADDITIONAL: (Continued)

physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has been selected as a candidate for funding under the Office of the Secretary of Defense (OSD) Productivity Investment Funding Program. An economic analysis has been performed in accordance with Department of Defense Instruction 5010.36 (Productivity Enhancing Capital Investments), and Army Regulation 5-4 (Department of the Army Productivity Improvement Program). The analysis compares New Construction to Status Quo and reports that the investment will have a discounted payback period of 1.0 years.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jan 86

(b) Percent Complete As Of 01 January 90 (BDGT YR) 95

(c) Percent Complete As Of 01 October 90 (PROG YR) 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Indiantown Gap

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 394

(b) All Other Design Costs 96

(c) Total Cost 490

(d) Contract 395

(e) In-house 95

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Drum, New York	4. PROJECT TITLE General Instruction Building

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 171	7. PROJECT NUMBER 28270	8. PROJECT COST ($000) Auth 608 Approp 608

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				506
General Instruction Building	SF	4,500	111.78	(503)
Information Systems	LS	-	-	(3)
Supporting Facilities				41
Electric Service	LS	-	-	(1)
Water, Sewer & Gas	LS	-	-	(4)
Paving, Walks, Curbs & Gutters	LS	-	-	(14)
Site Improvement	LS	-	-	(9)
Information Systems	LS	-	-	(13)
Subtotal				547
Contingency (5.00%)				27
Total Contract Cost				574
Supervision, Inspection & Overhead (6.00%)				34
Total Request				608
Total Request (Rounded)				608
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a general instruction building to include classrooms, lavatories, administration, storage room, video library and a mechanical room. Supporting facilities include utilities, information systems, fire protection and alarm systems, paving, storm drainage, access roads, walks, curbs and gutters, and site improvements. Heating and air conditioning (17 tons) will be provided by a self-contained system. Access for the handicapped will be provided.

11. REQUIREMENT: 4,500 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a general instruction building. (Current Mission)

REQUIREMENT: This project is required to provide classroom space for classes sponsored by the Civilian Personnel Office (CPO) for military and civilian. Classrooms will be utilized 75 - 80 percent by these CPO sponsored classes and the remainder of the time will be available for other organizations (military and civilian) to schedule classes on a first come first serve basis. Training load will be 35 percent for military and 65 percent for Army civilians.

CURRENT SITUATION: The lack of adequate training facilities on Fort Drum requires the rental of off-post facilities. The nearest community offering adequate facilities is the city of Watertown located approximately seven miles

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Drum, New York		
4.PROJECT TITLE General Instruction Building		5.PROJECT NUMBER 28270

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
southwest of Fort Drum. Portions of the Ramada Inn are rented at an annual cost of $45,000. Capabilities could be expanded with an on base facility. Personnel are sent on TDY to obtain training which cannot be offered on Fort Drum. Current TDY costs exceed $750,000 annually. Many personnel would benefit from this project since training courses which can now only be attended by TDY could be brought to the installation providing a substantial savings to the Government in dollars and productivity.
IMPACT IF NOT PROVIDED: If this project is not provided, personnel will not receive the training necessary to increase their skills and subsequent productivity. Temporary duty and facility rental costs will continue to escalate.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. The analysis compares new construction to costs of training off-post (temporary duty costs, transportation, and facility rental) and reports a Savings to Investment Ratio (SIR) of 21.66 for the new construction alternative with a Discounted Payback Period of .44 years

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	May 90
(b) Percent Complete As Of 01 January 90 (BDGT YR)	0
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	32
(b) All Other Design Costs	44
(c) Total Cost	76
(d) Contract	55
(e) In-house	21

(4) Construction Start Apr 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Drum, New York		
4. PROJECT TITLE General Instruction Building		5. PROJECT NUMBER 28270

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
North Carolina		Fort Bragg (FORSCOM)				201
	7023	Battalion Headquarters		1,850	1,850	203
	13485	Tactical Equipment Shop		11,600	11,600	206
	17051	Installation Map Depot		1,750	1,750	209
	19177	Maintenance Facility (Phase I)		31,800	31,800	212
	28565	Tactical Equipment Shop		7,400	7,400	216
		SUBTOTAL Fort Bragg PART I	$	54,400	54,400	
		* TOTAL MCA FOR North Carolina	$	54,400	54,400	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg North Carolina	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .87

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	4510	33104	4095	331	2053	2	190	1209	23	45,517
B. END FY 95	4886	34218	4521	351	2127	4	190	1209	23	47,529

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	129,431 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	497,536
C. AUTHORIZATION NOT YET IN INVENTORY	281,972
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	54,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	46,100
F. PLANNED IN NEXT THREE YEARS	203,708
G. REMAINING DEFICIENCY	654,338
H. GRAND TOTAL	1,738,054

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	13485	Tactical Equipment Shop	11,600	11/88	08/90
441	17051	Installation Map Depot	1,750	11/88	04/90
218	19177	Maintenance Facility (Phase I)	31,800	01/89	09/90
214	28565	Tactical Equipment Shop	7,400	04/89	07/90
141	07023	Battalion Headquarters	1,850	08/84	10/90
		SUBTOTAL PROJECTS OVER $1M	54,400		
		TOTAL	54,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
214	Tactical Equipment Shop	23,000
141	Barracks	2,850
214	Tactical Equipment Shop	7,400
442	Medical Supply Warehouse	3,900
179	Maneuver Training Range	1,250
730	Chapel Center	2,700
214	Tactical Equipment Shop	5,000
	SUBTOTAL PROJECTS OVER $1M	46,100
	TOTAL	46,100

10. MISSION OR MAJOR FUNCTIONS:

Support and training of an Airborne Division and non-divisional Support units; provides support to the USA John F. Kennedy Special Warfare Center & School; XVIII Corps Headquarters and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Bragg North Carolina

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

miscellaneous other tenant activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	7,600

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Bragg, North Carolina	4. PROJECT TITLE Battalion Headquarters

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 171	7. PROJECT NUMBER 7023	8. PROJECT COST ($000) Auth 1,850 Approp 1,850

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				937
Battalion HQ/Classroom Bldg	SF	10,445	89.00	(930)
Information Systems	LS	-	-	(6)
IDS Installation	LS	-	-	(1)
Supporting Facilities				725
Electric Service	LS	-	-	(60)
Water, Sewer & Gas	LS	-	-	(5)
Steam, Chilled Water & Heat Distribution	LS	-	-	(346)
Paving, Walks, Curbs & Gutters	LS	-	-	(32)
Storm Drainage	LS	-	-	(25)
Site Improvement (173) Demolition (35)	LS	-	-	(208)
Information Systems	LS	-	-	(44)
Asbestos Removal	LS	-	-	(5)
Subtotal				1,662
Contingency (5.00%)				83
Total Contract Cost				1,745
Supervision, Inspection & Overhead (6.00%)				105
Total Request				1,850
Total Request (Rounded)				1,850
Installed Equipment - Other Appropriations				(27)

10. Description of Proposed Construction Construct a battalion headquarters and classroom building with a crypto vault with an interior intrusion detection system (IDS). Support costs are very high because of extensive demolition and site improvement to this barren, compacted area and because water lines will be sized for this and future projects. Supporting facilities include utilities, electric service, roads, walks, curbs and gutters, parking, storm drainage, sanitary sewer, information systems, and site improvements. Heating and air conditioning (45 tons) will be provided by connection to a central energy plant. Demolish five temporary World War II wood-frame structures (10,764 SF), including asbestos removal. Access for the handicapped will be provided.

11. REQUIREMENT: 694,748 SF ADEQUATE: 453,692 SF SUBSTANDARD: 140,558 SF

PROJECT: Construct a battalion headquarters and classroom building. (New Mission)

REQUIREMENT: Project is required to provide an adequate battalion headquarters and classroom building for a unit activation. The Multiple Launch Rocket System (MLRS) Battalion was activated as part of the 18th Airborne Corps at Fort Bragg during FY 88. The MLRS Battalion consists of three firing batteries and a combined headquarters and service battery. This unit represented an add-on system and did not replace any existing systems.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Bragg, North Carolina

4. PROJECT TITLE Battalion Headquarters	5. PROJECT NUMBER 7023

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
No permanent facilities existed at the installation to satisfy this new mission requirement without displacing other activities. Through unit displacements, a permanent facility was provided to serve as the MLRS Battalion Headquarters. Unit displacement allowed the MLRS Battalion to be consolidated with the other Corps Artillery elements. Because Fort Bragg accommodated the MLRS by robbing facilities from another unit, this project will construct replacement facilities for a 1st Corps Support Command (COSCOM) Battalion. Presently a shortfall in permanent headquarters space exists for seven battalions in COSCOM.

CURRENT SITUATION: The MLRS is presently housed in permanent facilities in the D Area of Fort Bragg. The permanent facility was provided by displacing other units. As a result of this displacement, facility shortages exist for other units. This project will provide a replacement facility in the COSCOM area to balance the facility deficit.

IMPACT IF NOT PROVIDED: If this project is not provided, Fort Bragg will have accommodated an add-on unit by taking permanent facilities away from other units without getting replacement facilities. Fort Bragg is critically short of unit administrative facilities. Adding a new unit without providing necessary administrative facilities creates an unfair burden on Fort Bragg troops.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Aug 84
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 40
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Oct 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Fort Bragg, NC

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 85
(b) All Other Design Costs 100
(c) Total Cost 185

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4.PROJECT TITLE Battalion Headquarters		5.PROJECT NUMBER 7023

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(d) Contract	146
(e) In-house	39
(4) Construction Start	Apr 89 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	92	5
Information Sys Eq	OPA	92	22
		TOTAL	27

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Bragg, North Carolina	4. PROJECT TITLE Tactical Equipment Shop

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 13485	8. PROJECT COST ($000) Auth 11,600 Approp 11,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,442
Vehicle Maint Shop, Org	SF	43,897	78.55	(3,448)
Deployment Equipment Storage	SF	17,400	34.60	(602)
Oil Storage Building	SF	1,320	59.09	(78)
Sentry Stations (2)	SF	160	156.25	(25)
Fuel Dispensing Building	SF	120	158.33	(19)
See Cost Estimates (Continued)				(3,270)
Supporting Facilities				2,983
Electric Service	LS	-	-	(318)
Water, Sewer & Gas	LS	-	-	(923)
Steam, Chilled Water & Heat Distribution	LS	-	-	(562)
Paving, Walks, Curbs & Gutters	LS	-	-	(66)
Storm Drainage	LS	-	-	(144)
Site Improvement	LS	-	-	(895)
Information Systems	LS	-	-	(75)
Subtotal				10,425
Contingency (5.00%)				521
Total Contract Cost				10,946
Supervision, Inspection & Overhead (6.00%)				657
Total Request				11,603
Total Request (Rounded)				11,600
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct three standard-design organizational vehicle maintenance shop facilities with repair bays and shops, storage, administrative offices, and latrines. The shops will have electrically operated roll-up doors, vehicle exhaust ventilation, lubricant dispensing facilities, and compressed air systems. The complex will also provide deployment equipment storage buildings, oil storage buildings, fuel dispensing facilities, dispatch office and sentry buildings, an access road, and hardstand. Supporting facilities include utilities, information systems, fire protection and alarm systems, paving, walks, curbs and gutters, storm drainage with retention ponds/riprap, fencing, security lighting, and site improvements including erosion control. Heating will be provided by self-contained systems. Support costs are high as this project is sited in an undeveloped area of the post. Utility distribution systems are sized to serve this project plus future projects in the same general location. Air conditioning (50 tons) will be provided by self-contained system in administrative areas only. Mechanical ventilation: 340,000 CFM.

11. REQUIREMENT: 1,379,914 SF ADEQUATE: 445,427 SF SUBSTANDARD: 216,758 SF
PROJECT: Construct standard-design organizational vehicle maintenance shop facilities. (New Mission)

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 74 1391

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Tactical Equipment Shop		5. PROJECT NUMBER 13485

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Diesel Fuel Storage	GA	50,000	2.18	109
Gas Fuel Storage	GA	10,000	2.50	25
Hardstand	SY	28,670	38.65	1,108
Asphalt Hardstand	SY	54,297	20.22	1,098
Fueling Islands, Complete	EA	2	21,000	42
Fuel Storage Future Expansion	GA	10,000		5
Connector Road	LS	-	-	872
Information Systems	LS	-	-	11
			Total	3,270

REQUIREMENT: This project is required to provide adequate organizational vehicle maintenance facilities to support the activation of six units (combat aviation brigade headquarters, combat aviation group headquarters with one attack helicopter battalion, one air cavalry squadron, one combat aviation battalion, and one command aviation battalion) and provide access to this undeveloped section of the post. These units are being activated in the FY 87-91 timeframe to support the XVIII Airborne Corps which includes the 82d Airborne Division (Fort Bragg), the 101st Airborne Division-Air Assault (Fort Campbell, Kentucky), and other continental United States (CONUS)-based divisions. The XVIII Airborne Corps has the mission of providing and directing a large portion of rapid deployment forces in response to worldwide exigencies. This shop complex will support 1,162 organizational vehicles.

CURRENT SITUATION: No installation assets are currently assigned or available for these new aviation units. After FY 87 construction is complete, Fort Bragg will continue to suffer from a shortage of over 853,000 SF of permanent organizational maintenance shop space.

IMPACT IF NOT PROVIDED: If this project is not provided, no adequate facilities will be available for these new units. Their activation before construction will require these units to be assigned to maintenance tents or share overcrowded shops presently assigned to other units, which will compromise equipment, tools, and supply security. The use of maintenance tents or mobilization buildings will adversely affect the mission accomplishment and combat readiness posture of these new units.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Tactical Equipment Shop		5. PROJECT NUMBER 13485

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status:

(a) Design Start Date	Nov 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	60
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Aug 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used SAS DEF DESN

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	420
(b) All Other Design Costs	252
(c) Total Cost	672
(d) Contract	0
(e) In-house	672

(4) Construction Start .... Feb 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391C

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Bragg, North Carolina	4.PROJECT TITLE Installation Map Depot

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 441	7.PROJECT NUMBER 17051	8.PROJECT COST ($000) Auth 1,750 Approp 1,750

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,261
Topographic Readiness Facility	SF	27,500	44.41	(1,221)
Loading Docks	LS	-	-	(21)
Heating Oil Storage	GA	1,500	6.16	(9)
IDS Installation	LS	-	-	(7)
Information Systems	LS	-	-	(3)
Supporting Facilities				306
Electric Service	LS	-	-	(42)
Water, Sewer & Gas	LS	-	-	(38)
Paving, Walks, Curbs & Gutters	LS	-	-	(115)
Storm Drainage	LS	-	-	(24)
Site Improvement	LS	-	-	(70)
Information Systems	LS	-	-	(17)
Subtotal				1,567
Contingency (5.00%)				78
Total Contract Cost				1,645
Supervision, Inspection & Overhead (6.00%)				99
Total Request				1,744
Total Request (Rounded)				1,750
Installed Equipment - Other Appropriations				(159)

10.Description of Proposed Construction Construct an installation map depot to house and maintain finished map products. Work includes office and administration areas, a reception area, a warehouse area, oil storage, and a loading dock. Install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, rigid and flexible pavements, walks, curbs and gutters, storm drainage, fire protection and alarm systems, information systems, and site improvements. Special provisions for secure storage of classified maps and information will be provided with emergency lighting and humidity control. Access for the handicapped will be provided. Heating will be provided by steam from an existing oil-fired central plant. Air conditioning (70 tons) will be provided by a self-contained unit.

11. REQUIREMENT: 27,500 SF ADEQUATE: None SUBSTANDARD: 9,368 SF

PROJECT: Construct an installation map depot. (Current Mission)

REQUIREMENT: This project is required to provide a permanent storage facility for strategic and tactical maps, terrain analysis, and topographic information. It will also serve as a central reference point for all information and data concerning worldwide geographical mapping. This project will satisfy the total requirement for map storage and issue to all units stationed on the installation.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Installation Map Depot		5. PROJECT NUMBER 17051

11. REQUIREMENT: (Continued)
CURRENT SITUATION: The existing XVIII Airborne Corps map depot is located in a temporary World War II vintage building. Sufficient storage space is not available and the use of material handling equipment is limited due to the building's poor physical condition. Inadequacy of space has forced some Fort Bragg commands to establish and staff their own map depots for war contingency stocks because they cannot depend upon adequate support from the existing map depot.
IMPACT IF NOT PROVIDED: If this project is not provided, the lack of proper cataloging and storage of the information located in the map depots will continue to result in lost time and effort due to inefficient retrieval procedures. The information located within the confines of the map depots must be readily accessible, easily retrievable for rapid deployment of ready forces, and properly secured in classified containers. Absence of the recommended storage facilities increases the probable loss of the contained information due to fire or a lapse/loss of security.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has been selected as a candidate for funding under the Office of the Secretary of Defense (OSD) Productivity Investment Funding Program. An economic analysis has been performed in accordance with Department of Defense Instruction 5010.36 (Productivity Enhancing Capital Investments), and Army Regulation 5-4 (Department of the Army Productivity Improvement Program). The analysis compares new construction to status quo and reports that the investment will have a discounted payback period of 0.7 years.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Nov 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 60
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Apr 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 84
(b) All Other Design Costs 7

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Installation Map Depot		5. PROJECT NUMBER 17051

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)

	($000)
(c) Total Cost	91
(d) Contract	0
(e) In-house	91

(4) Construction Start .... Feb 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	90	9
Electric Order Selectors (3)	OPA	90	60
Forklift	OPA	90	15
Metal Shelving	OPA	90	75
		TOTAL	159

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**		2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Bragg, North Carolina		4.PROJECT TITLE Maintenance Facility (Phase I)	
5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 218	7.PROJECT NUMBER 19177	8.PROJECT COST ($000) Auth 31,800 Approp 31,800

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				24,473
Maint Shop-Gen Purpose (Bldg A)	SF	259,300	67.00	(17,373)
Maint Shop & Paint Fac (Bldg B)	SF	41,835	77.49	(3,242)
Cannibalization Bldg (Bldg C)	SF	2,710	138.75	(376)
Fuel Bladder Purge Canopy-Bldg E	SF	774	55.56	(43)
POL Building (Bldg F)	SF	895	132.96	(119)
See Cost Estimates (Continued)				(3,320)
Supporting Facilities				4,098
Electric Service	LS	–	–	(763)
Water, Sewer & Gas	LS	–	–	(378)
Paving, Walks, Curbs & Gutters	LS	–	–	(821)
Storm Drainage	LS	–	–	(310)
Site Improvement (1325) Demolition (314)	LS	–	–	(1,639)
Information Systems	LS	–	–	(187)
Subtotal				28,571
Contingency (5.00%)				1,429
Total Contract Cost				30,000
Supervision, Inspection & Overhead (6.00%)				1,800
Total Request				31,800
Total Request (Rounded)				31,800
Installed Equipment - Other Appropriations				(121)

10.Description of Proposed Construction Construct the first phase of a two-phase general-purpose maintenance complex. Phase I includes combat and construction vehicle, automobile, and artillery repair, component overhaul areas, battery and machine shops, office machine, electronics, communications, and optical repair shops. Install an intrusion detection system (IDS). Project also includes warehouses, sentry station, a fuel station with diesel fuel and gasoline storage, hardstand, cannibalization point, a chemical agent resistant coating (CARC) paint building, washracks, steam cleaning stalls, and an access road with traffic signals. Supporting facilities include utilities, electric service, smoke detection and sprinkler systems (with Halon for the warehouse computer room), paving, storm drainage, information systems, and site improvements. Access for the handicapped will be provided. Heating will be supplied by a self-contained central heat plant and from an existing oil-fired central plant. Demolish ten buildings (55,428 SF) which include asbestos removal. Air conditioning: 95 tons. Mechanical ventilation: 341,000 CFM.

11. REQUIREMENT: 477,093 SF ADEQUATE: 105,714 SF SUBSTANDARD: 85,388 SF

PROJECT: Construct phase one of a two phase general-purpose maintenance facility. (Current Mission)

REQUIREMENT: This project is required to provide quick and efficient

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4.PROJECT TITLE Maintenance Facility (Phase I)		5.PROJECT NUMBER 19177

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Fuel Dispensing Bldg (Bldg G)	SF	600	53.33	32
Security Gatehouse (Bldg J)	LS	-	-	103
Fuel Storage & Pumps	LS	-	-	47
Hardstand	SY	47,233	38.00	1,795
Access Road	SY	19,697	38.00	748
Heating Plant	LS	-	-	400
Information Systems	LS	-	-	166
IDS Installation	LS	-	-	29
			Total	3,320

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
maintenance of new force modernization equipment lines and perform general support maintenance for all units on Fort Bragg and vast Reserve component elements serviced by the Installation Material Maintenance Division (IMMD). Phase II is composed of electronic and communications shops and administrative and budget components of IMMD.

CURRENT SITUATION: All IMMD functions are housed in 45 substandard buildings (17 temporary) dispersed in three locations approximately one mile apart. Most of these buildings were built in 1935 and are in fair to poor condition. Maintenance operations are conducted in former horse stables. Typically, these buildings are not insulated and have numerous holes in the siding and roofs. Toxic fume ventilation systems are nonexistent. There are no noise controls or emergency eye washes, and lighting is very poor. Building layouts are inefficient, with no vehicle drive-through capability. New equipment systems are too big to get through the doors, forcing mechanics to work outside. The bays are too small, the ceilings too low, and only makeshift cranes can be used for lifting components waiting for work, which are stored outside, commonly from one month to a year. Weather damage is extensive and the painting operation has been permanently shut down due to health and safety hazards. The IMMD warehouse carries more than 16,000 line items, operating out of six dilapidated storage sections and four supply points. The warehouse suffers substantial losses from exposure to humidity and high temperatures. Spray cans and paints cannot be stored in the warehouse due to high summer temperatures (110 degrees F). Hazardous materials are stored in isolated containers and lockers. Internal control is very poor. The armament compound shops support both the main compound and Electronics and Communications building, with work supervision consequently inefficient. Warehousing requirements are met by using permanent warehouses consolidated at the Knox Street warehousing area, leasing storage facilities off-post, and using a multitude of World War I and II warehouses scattered in several locations. On-post warehouses, constructed in the 1950s and 60s, are

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Maintenance Facility (Phase I)		5. PROJECT NUMBER 19177

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
all filled. Overflow stores are placed in commercially leased space (106,407 SF), but no frequently used stocks are stored here. The temporary World War I and II warehouses, where high use stocks are stored, have low ceilings which prevent palletized storage and wooden floors which prohibit heavy forklift traffic. Generally, these buildings are unheated, unventilated, and have no fire protection. On 20 April 1981, the warehouse used to store expensive, high use stocks was destroyed by fire.

IMPACT IF NOT PROVIDED: If this project is not provided, the IMMD will continue to use these 45 antiquated and dispersed buildings, jeopardizing government equipment and supplies, continuing internal command and control problems, wasting enormous quantities of gas, vehicles, and time, creating duplication of effort, and exposing workers to safety hazards. The negative impacts on an organization whose mission is to provide equipment maintenance support to the XVIII Airborne Corps, 26 active tenants, and many Reserve component units cannot be stressed enough. Without the warehouse, handling, maintaining, and protecting contingency deployment stocks will continue to be threatened due to operating from two World War II warehouses, and the ability to respond to deployment situations or training exercises will be handicapped. Supplies and government property will continue to deteriorate due to the lack of adequate heating and ventilation. Continued dependence on these warehouses will increase the likelihood of another disastrous fire.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jan 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	65
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications	990
(b) All Other Design Costs	495

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4.PROJECT TITLE Maintenance Facility (Phase I)		5.PROJECT NUMBER 19177

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

		($000)
(3)	Total Cost: (Continued)	
(c)	Total Cost	1,485
(d)	Contract	1155
(e)	In-house	330
(4)	Construction Start	Feb 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	27
Information Sys Eq	OPA	91	94
		TOTAL	121

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Bragg, North Carolina	4.PROJECT TITLE Tactical Equipment Shop

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 214	7.PROJECT NUMBER 28565	8.PROJECT COST ($000) Auth 7,400 Approp 7,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,088
Tactical Equipment Shop	SF	25,322	77.72	(1,968)
Deployment Equipment Storage	SF	2,800	34.64	(97)
Oil Storage Building	SF	480	52.08	(25)
Sentry Station	SF	80	150.00	(12)
Fuel Dispensing Building	SF	120	150.00	(18)
See Cost Estimates (Continued)				(2,968)
Supporting Facilities				1,533
Electric Service	LS	-	-	(165)
Water, Sewer & Gas	LS	-	-	(260)
Paving, Walks, Curbs & Gutters	LS	-	-	(240)
Storm Drainage	LS	-	-	(59)
Site Improvement	LS	-	-	(784)
Information Systems	LS	-	-	(25)
Subtotal				6,621
Contingency (5.00%)				331
Total Contract Cost				6,952
Supervision, Inspection & Overhead (6.00%)				417
Total Request				7,369
Total Request (Rounded)				7,400
Installed Equipment - Other Appropriations				(4)

10.Description of Proposed Construction Construct a standard-design tactical equipment shop. Work includes repair bays, storage, administrative offices, break room, latrines, training and conference areas. The shop will have roll-up doors, vehicle exhaust ventilation, lubricant dispensing facilities, and compressed air systems. The complex will provide deployment equipment storage buildings, oil houses, fuel dispensing facilities, dispatch office and sentry buildings, and vehicle hardstands. Construct a roadway and upgrade the existing road network. Supporting facilities include utilities, electric service, storm drainage, information systems, fire protection and alarm systems, paving, walks, curbs and gutters, retaining walls, security lighting, and site improvements. Heating and air conditioning (4 tons) will be provided by self-contained units for administrative areas only. Mechanical ventilation: 48,000 CFM. Concrete hardstand in excess of that authorized by the Facility Planning System is justified by the unique character of the organizational vehicles and their associated turning radii. The vehicle wash point is required to maintain tracked vehicles. Excess support facility costs are a result of extensive earthwork requirements.

11. REQUIREMENT: 1,385,043 SF ADEQUATE: 445,427 SF SUBSTANDARD: 216,758 SF

PROJECT: Construct a standard-design tactical equipment shop. (Current

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4.PROJECT TITLE Tactical Equipment Shop		5.PROJECT NUMBER 28565

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Bulk Fuel Storage	GA	45,000	1.98	89
Hardstand	SY	32,858	36.13	1,187
Fueling Islands	EA	2	20,500	41
Widen Canopy Lane	LF	2,600	331.15	861
Reroute Yadkin Road	LF	3,680	214.13	788
Information Systems	LS	-	-	2
			Total	2,968

11. REQUIREMENT: (Continued)
PROJECT: (Continued)
Mission)

REQUIREMENT: This project is required to provide a consolidated vehicle maintenance facility with secure storage area for 317 organizational vehicles and 92 facility occupants of an armored regiment. This facility will permit periodic and preventive maintenance operations on tracked and wheeled vehicles to assure the state of readiness required for rapid deployment into a combat situation.

CURRENT SITUATION: An armored battalion, a maintenance battalion, and a combat aviation battalion occupy a 26.5 acre motor pool area (tank servicing and repair facilities) constructed in 1955. The armored battalion operates in four repair shops (5,701 SF each) designed for the airborne vehicles in use during the 1950s. The structures do not provide sufficient overhead space to allow cranes to lift the power pack from the tanks for servicing; therefore, these main vehicles must be maintained out of doors to allow moveable cranes or trucks the required overhead clearance. The buildings are also separated by over 400 feet which creates many operational inefficiencies. The severely irregular topography at the site presents problems with moving the oversized vehicles around as well as guiding them into the small shop bays. After completion of this project, the four existing buildings will be assigned to the Airborne Board and the Dragon Brigade. These units own significantly smaller 2-1/2 ton trucks and high mobility multi-purpose wheeled vehicles (HMMWV).

IMPACT IF NOT PROVIDED: If this project is not provided, the 3/27th Field Artillery will be housed in facilities which are distant from their other assets. This distance will create problems with control and coordination. The 3/73d Armored will continue to work in small facilities which are not sized for their current vehicles. Lack of adequate vehicle maintenance facilities will have a detrimental impact on the ability of these units to accomplish their mission of providing fully mobilized and operational vehicles and weapons systems for direct combat during a national emergency. The Airborne Board and Dragon Brigade (units with smaller vehicles which will move into the shops vacated by the 3/73d) will be forced to remain in their

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Bragg, North Carolina		
4. PROJECT TITLE Tactical Equipment Shop	5. PROJECT NUMBER 28565	

11. REQUIREMENT: (Continued)
IMPACT IF NOT PROVIDED: (Continued)
temporary World War II wooden structures.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Apr 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 51
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jul 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Fort Bragg, NC

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 450
(b) All Other Design Costs 50
(c) Total Cost 500
(d) Contract 0
(e) In-house 500

(4) Construction Start .... Feb 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	4
		TOTAL	4

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Oklahoma		Fort Sill (TRADOC)				221
	11695	Communications-Electronics Lab Addn		3,550	3,550	223
	14087	Modernize Sewage Treatment Plant		21,600	21,600	226
		SUBTOTAL Fort Sill PART I	$	25,150	25,150	
		* TOTAL MCA FOR Oklahoma	$	25,150	25,150	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sill Oklahoma	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .92

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1459	9894	3252	981	6919	2	70	84	29	22,690
B. END FY 95	1444	9684	2918	971	6777	2	70	84	29	21,979

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 94,211 AC

B. INVENTORY TOTAL AS OF 30 SEP 89.................................... 294,323

C. AUTHORIZATION NOT YET IN INVENTORY.................................... 98,366

D. AUTHORIZATION REQUESTED IN THIS PROGRAM.................................... 25,150

E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM.................................... 30,500

F. PLANNED IN NEXT THREE YEARS.................................... 63,264

G. REMAINING DEFICIENCY.................................... 535,535

H. GRAND TOTAL.................................... 1,047,138

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
171	11695	Communications-Electronics Lab Addn	3,550	03/89	06/90
831	14087	Modernize Sewage Treatment Plant	21,600	03/89	09/90
		SUBTOTAL PROJECTS OVER $1M	25,150		
		TOTAL	25,150		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
800	Energy Monitoring and Control System	3,350
214	Central Vehicle Wash Facility	26,000
730	Fire Station	1,150
	SUBTOTAL PROJECTS OVER $1M	30,500
	TOTAL	30,500
B. PLANNED NEXT THREE PROGRAM YEARS :		
214	TACTICAL EQUIPMENT SHOP	13,000
721	BARRACKS	12,200
	SUBTOTAL PROJECTS OVER $1M	25,200
	TOTAL	25,200

10. MISSION OR MAJOR FUNCTIONS:

Support and training of artillery and missile units, operation of the US Army Field Artillery Center and School, US Army Reception Center and provides support for tenant activities and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Sill Oklahoma

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

Reserve Components summer training.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Sill, Oklahoma	4.PROJECT TITLE Communications-Electronics Lab Addn

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 171	7.PROJECT NUMBER 11695	8.PROJECT COST ($000) Auth 3,550 Approp 3,550

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,034
Classroom/Lab Addition	SF	25,338	106.99	(2,711)
Remodel Existing Lab/Classroom	SF	2,730	72.16	(197)
Information Systems	LS	-	-	(126)
Supporting Facilities				175
Electric Service	LS	-	-	(44)
Water, Sewer & Gas	LS	-	-	(9)
Paving, Walks, Curbs & Gutters	LS	-	-	(8)
Site Improvement	LS	-	-	(72)
Information Systems	LS	-	-	(42)
Subtotal				3,209
Contingency (5.00%)				160
Total Contract Cost				3,369
Supervision, Inspection & Overhead (6.00%)				202
Total Request				3,571
Total Request (Rounded)				3,550
Installed Equipment - Other Appropriations				(65)

10.Description of Proposed Construction Construct a classroom and laboratory addition to a general instruction facility. Supporting facilities include utilities, electric service, storm drainage, information systems, paving, walks, curbs and gutters, and site improvements. Heating and air conditioning (60 tons) will be provided by gas-fired self-contained system. There is a special power requirement for extension of the existing 400 Hz-208 volt-3 phase power and wiring for 28 volt DC power from the existing generator.

11. REQUIREMENT: 305,878 SF ADEQUATE: 74,175 SF SUBSTANDARD: 110,606 SF

PROJECT: Construct classroom and laboratory additions to a general instruction facility. (Current Mission)

REQUIREMENT: This project is required to provide sufficient space to train technicians of the Single Channel Ground Airborne Radio System (SINCGARS), Mobile Subscriber Equipment (MSE), and VANDAL communications equipment for the Field Artillery School. The average daily student load is 1,224. The building will consist primarily of laboratories, general purpose classrooms, instructor space and storage.

CURRENT SITUATION: The permanent instruction facility for communications and electronics instruction is Burleson Hall (77,400 SF). Due to the expanding number of courses, an additional 13,700 SF of classroom space has

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4. PROJECT TITLE Communications-Electronics Lab Addn		5. PROJECT NUMBER 11695

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
been acquired in two other buildings. Presently, 32 courses in communications and electronics are given in these buildings.

IMPACT IF NOT PROVIDED: If this project is not provided, other classes with less technical requirements will be relocated into temporary or substandard buildings. The three remaining general purpose classrooms must be converted to dedicated single channel ground and airborne radio subsystem (SINCGARS) laboratories, in addition to two frequency modulation (FM) labs and two special purpose labs. These labs and other general purpose classrooms are now fully utilized and any other use can only cause overcrowding and the need for multiple shifts for all Field Artillery and Signal classes.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that was in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... Mar 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 56
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Jun 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes ___ No X
    - (b) Where Design Was Most Recently Used N/A
  - (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
    - (a) Production of Plans and Specifications 178
    - (b) All Other Design Costs 79
    - (c) Total Cost 257
    - (d) Contract 182
    - (e) In-house 75
  - (4) Construction Start .... Jan 91 month & year

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391C

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4.PROJECT TITLE Communications-Electronics Lab Addn		5.PROJECT NUMBER 11695

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Instruction Eq and Information Sys Eq	OPA	91	65
		TOTAL	65

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Sill, Oklahoma	4. PROJECT TITLE Modernize Sewage Treatment Plant

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 831	7. PROJECT NUMBER 14087	8. PROJECT COST ($000) Auth 21,600 Approp 21,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				16,542
Mod/Upgrade Sewage Treatment Fac	KG	4,300	3,847	(16,542)
Supporting Facilities				2,865
Electric Service	LS	-	-	(290)
Water, Sewer & Gas	LS	-	-	(4)
Paving, Walks, Curbs & Gutters	LS	-	-	(209)
Storm Drainage	LS	-	-	(119)
Site Improvement (1449) Demolition (794)	LS	-	-	(2,243)
Subtotal				19,407
Contingency (5.00%)				970
Total Contract Cost				20,377
Supervision, Inspection & Overhead (6.00%)				1,223
Total Request				21,600
Total Request (Rounded)				21,600
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Expand a waste water treatment plant to handle an average flow of 4.3 million gallons per day (MGD) and new treatment processes to comply with upgraded US Environmental Protection Agency (USEPA) effluent standards for biochemical oxygen demand (BOD), suspended solids, ammonia-nitrogen, dissolved oxygen, hydrogen-ion concentration (pH), and dechlorination. Supporting facilities include electric service and distribution, area lighting, interconnecting piping (waste water, water, gas, and chemicals), valves and manholes, storm drainage and flood protection, paving, and site improvements. Demolish existing primary and secondary trickling filters and the intermediate filter clarifier. Heating will be provided by a self-contained gas fired system.

11. REQUIREMENT: 4,300 KG ADEQUATE: None SUBSTANDARD: 2,800 KG

PROJECT: Upgrade and expand the sewage treatment facility. (Current Mission)

REQUIREMENT: This project is required to meet the requirements of the USEPA and Oklahoma State Department of Health. This project also expands the plant facilities to meet projected future demand, since it is now operating near capacity.

CURRENT SITUATION: Sewage and waste water are treated in the Fort Sill

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4. PROJECT TITLE Modernize Sewage Treatment Plant		5. PROJECT NUMBER 14087

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
Waste Water Treatment Plant to provide primary, secondary, and tertiary treatment. The plant is operating near its designed capacity. Additional facilities currently under construction and near term programmed projects will further increase demand. Plant capacity is sometimes exceeded during heavy-use conditions or periods of extended wet weather. The plant is subject to flooding when East Cache Creek is at or above flood stage. Serious structural damage has occurred to the west clariflocculator as a result of the floods in 1986 and 1987. The current system does not comply with USEPA and the Oklahoma Department of Health discharge limitations. On 1 January 1987, Fort Sill was in violation of the milestone requirements of the Federal Facilities Compliance Agreement (FFCA) negotiated in good faith with USEPA. On 9 October 1987, Fort Sill received an Administrative Order from USEPA Region VI ordering Fort Sill to correct the deficiencies within 60 days or provide a comprehensive plan to achieve compliance with the permit discharge limitations. This project is the result of that comprehensive plan.
IMPACT IF NOT PROVIDED: If this project is not provided, the post will not be able to comply with the terms of the FFCA negotiated with USEPA Region VI. Noncompliance will place Fort Sill in violation of the Clean Water Act which provides civil penalties of up to $25,000 per day. Fort Sill presently is unable to comply with the Administrative Order received from USEPA on 9 October 1987. This could result in further legal action against Fort Sill by USEPA.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are included. This project complies with the scope and design criteria of DOD 4270.1M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 45
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 975

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4. PROJECT TITLE Modernize Sewage Treatment Plant		5. PROJECT NUMBER 14087

12. SUPPLEMENTAL DATA: (Continued)
   A. Estimated Design Data: (Continued)
      (3) Total Cost: (Continued) ($000)

(b) All Other Design Costs	300
(c) Total Cost	1,275
(d) Contract	1125
(e) In-house	150

(4) Construction Start .... Feb 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Pennsylvania		Carlisle Barracks (TRADOC)				231
	21435	Center for Strategic Wargaming		25,000	25,000	233
	21436	Child Development Center		1,200	1,200	236
		SUBTOTAL Carlisle Barracks PART I	$	26,200	26,200	
		Fort Indiantown Gap (FORSCOM)				239
	9223	Ammunition Supply Point		1,350	1,350	241
	22518	Cold Storage Warehouse		5,000	5,000	244
		SUBTOTAL Fort Indiantown Gap PART I	$	6,350	6,350	
		Tobyhanna Army Depot (AMC)				247
	9077	Satellite Systems Maintenance Facility		6,800	6,800	249
		SUBTOTAL Tobyhanna Army Depot PART I	$	6,800	6,800	
		* TOTAL MCA FOR Pennsylvania	$	39,350	39,350	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Carlisle Barracks Pennsylvania	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .88

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	150	171	620	270	0	16	12	5	234	1,478
B. END FY 95	143	168	619	270	0	16	12	5	244	1,477

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	403 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	192,567
C. AUTHORIZATION NOT YET IN INVENTORY..................................	906
D. AUTHORIZATION REQUESTED IN THIS PROGRAM.............................	26,200
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	0
F. PLANNED IN NEXT THREE YEARS..	0
G. REMAINING DEFICIENCY..	10,432
H. GRAND TOTAL...	230,105

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
740	21436	Child Development Center	1,200	01/89	08/90
141	21435	Center for Strategic Wargaming	25,000	01/89	08/90
		SUBTOTAL PROJECTS OVER $1M	26,200		
		TOTAL	26,200		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)

A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE

B. PLANNED NEXT THREE PROGRAM YEARS : NONE

10. MISSION OR MAJOR FUNCTIONS:

Provide administrative and logistical support for the operation of the U.S. Army Garrison, U.S. Army War College, U.S. Army Military History Institute, U.S. Dunham Army Hospital and other tenant units and activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Carlisle Barracks, Pennsylvania	4.PROJECT TITLE Center for Strategic Wargaming

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 141	7.PROJECT NUMBER 21435	8.PROJECT COST ($000) Auth 25,000 Approp 25,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				21,011
Strategic Wargaming Center	SF	154,682	126.67	(19,594)
Information Systems	LS	-	-	(1,365)
EMCS Provisions	LS	-	-	(52)
Supporting Facilities				1,394
Electric Service	LS	-	-	(185)
Water, Sewer & Gas	LS	-	-	(157)
Paving, Walks, Curbs & Gutters	LS	-	-	(455)
Storm Drainage	LS	-	-	(172)
Site Improvement (89) Demolition (87)	LS	-	-	(176)
Information Systems	LS	-	-	(207)
Fuel Oil Storage	LS	-	-	(42)
Subtotal				22,405
Contingency (5.00%)				1,120
Total Contract Cost				23,525
Supervision, Inspection & Overhead (6.00%)				1,412
Total Request				24,937
Total Request (Rounded)				25,000
Installed Equipment - Other Appropriations				(15,653)

10.Description of Proposed Construction Construct a special purpose, controlled access facility with TEMPEST electronic surveillance protection and sensitive compartmented information facilities (SCIF). Provide secure entrances, administrative and special purpose areas to facilitate 24-hour operations, a conference room, computer rooms, and install an energy monitoring control system (EMCS). Supporting facilities include utilities, electric service, security lighting, signage, information systems, paving, walks, steps, curbs and gutters, sanitary sewer, storm drainage, fire protection and alarm systems, access road, parking, fuel oil storage, and site improvements. Heating and air conditioning (865 tons) will be provided by separate systems. Access for the handicapped will be provided. Demolish 17 temporary (70,343 SF) and two permanent (880 SF) buildings, which include asbestos removal.

11. REQUIREMENT: 154,682 SF ADEQUATE: None SUBSTANDARD: 49,602 SF

PROJECT: Construct a special purpose facility for performance of Army strategic level wargaming and operational missions. (Current Mission)

REQUIREMENT: This project is required to provide the United States Army War College (USAWC) with the capability to conduct strategic level wargaming and simulations, symposia, Commanders-in-Chief (CINC) conferences, and to support National, Joint, and Army level operational missions and war fighting

1. COMPONENT
ARMY

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2. DATE
JAN 90

3. INSTALLATION AND LOCATION
Carlisle Barracks, Pennsylvania

4. PROJECT TITLE
Center for Strategic Wargaming

5. PROJECT NUMBER
21435

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
requirements.

CURRENT SITUATION: The missions assigned to the USAWC are performed by the Wargaming Department and the Operations Group. The Information System Command's mission is linked to the data and communications requirements of these two organizations. These three organizations are currently housed in 18 separate facilities which are either substandard or inadequate to meet mission and operational requirements. There is no single structure or combination of structures which could be renovated to meet security and space requirements. The only available structures are 45-50 year-old temporary wood frame barracks whose deteriorated condition dictates their removal. Neither the Wargaming Department nor the Operations Group have sufficient space in their present facilities to perform their present missions, let alone the expansion required by recent studies for the Army Chief of Staff. This facility will house a minimum of 168 permanent party personnel and must be capable of accommodating up to 450 additional temporary duty personnel.

IMPACT IF NOT PROVIDED: If this project is not provided, the USAWC will not be able to conduct strategic level wargaming, simulations, or CINC conferences in support of the Chief of Staff of the Army (CSA) and fully meet its operational mission requirements. The existing facilities will continue in use, but are inadequate to meet present mission and operational needs and required expansion of these facilities is not possible. Further details are contained in the separate classified document.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... Jan 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 45
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Aug 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes ___ No X
    - (b) Where Design Was Most Recently Used N/A
  - (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
    - (a) Production of Plans and Specifications 1,050

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Carlisle Barracks, Pennsylvania		
4. PROJECT TITLE Center for Strategic Wargaming		5. PROJECT NUMBER 21435

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)

	($000)
(b) All Other Design Costs	1,300
(c) Total Cost	2,350
(d) Contract	1,800
(e) In-house	550

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
ISDN Switch	OPA	91	7430
Outside Cable	OPA	91	1000
Educational TV Cable	OPA	91	228
Unclass Lan	OPA	92	341
Security System	OPA	92	600
Telecomm Center	OPA	92	119
SSO Assist Terminal	OPA	92	19
Common Patch Test Fa	OPA	92	350
HF Radios-Remote Sys	OPA	92	153
UPI News Service	OPA	92	1
VI System/Devices	OPA	92	721
VTC Systems	OPA	92	110
Briefing/Display Sys	OPA	92	2733
HF Backup Generator	OPA	92	50
RGB Monitors	OPA	92	288
WWMCCS TS Lan	OPA	92	212
Interphone System	OPA	92	48
Data Processing Sys	OPA	92	50
Interpretation/Trans	OPA	92	34
CSW Computer Sys	OPA	92	50
CSW Secret Lan	OPA	92	346
Backup Generators	OPA	92	500
WWMCCS System	OPA	93	270
		TOTAL	15,653

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Carlisle Barracks, Pennsylvania	4. PROJECT TITLE Child Development Center

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 740	7. PROJECT NUMBER 21436	8. PROJECT COST ($000) Auth 1,200 Approp 1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				802
Child Development Center	SF	8,190	89.99	(737)
Outdoor Storage Sheds	EA	2	5,500	(11)
Playground With Equipment	LS	–	–	(52)
Information Systems	LS	–	–	(2)
Supporting Facilities				274
Electric Service	LS	–	–	(25)
Water, Sewer & Gas	LS	–	–	(50)
Paving, Walks, Curbs & Gutters	LS	–	–	(55)
Storm Drainage	LS	–	–	(34)
Site Improvement	LS	–	–	(84)
Information Systems	LS	–	–	(22)
EMCS Connection	LS	–	–	(4)
Subtotal				1,076
Contingency (5.00%)				54
Total Contract Cost				1,130
Supervision, Inspection & Overhead (6.00%)				68
Total Request				1,198
Total Request (Rounded)				1,200
Installed Equipment - Other Appropriations				(79)

10. Description of Proposed Construction Construct a standard-design, child development center with a capacity of 99 children. Work will include administrative offices, a patron reception area, an isolation room, storage, janitor and laundry room, toilet facilities, diaper stations, outdoor playgrounds with playground equipment and storage. Connect to the existing energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, fencing, paving, walks, curbs and gutters, parking, storm drainage, and site improvements. Heating will be provided by a self-contained, dual-fuel gas and oil system. Air conditioning (30 tons) will be provided by a self-contained system. Access for the handicapped will be provided. Support facility costs are high due to site improvements costs required to accommodate the standard-design.

11. REQUIREMENT: 8,190 SF ADEQUATE: None SUBSTANDARD: 5,712 SF

PROJECT: Construct a standard-design child development center. (Current Mission)

REQUIREMENT: This project is required to accommodate 99 children between the ages of six weeks and 12 years. The facility is needed to provide a safe, healthy, and developmental environment for dependent children whose parents

1. COMPONENT ARMY

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2. DATE JAN 90

3. INSTALLATION AND LOCATION

Carlisle Barracks, Pennsylvania

4. PROJECT TITLE

Child Development Center

5. PROJECT NUMBER

21436

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)

are employed or unable to care for them during intermittant absences such as medical appointments, meetings, and volunteering. This project is a replacement for the current facility housed in a basement. As a result of this project, the basement area will be used as temporary office space or storage. The school-age program will co-locate with the part-day preschool program. Three part-day preschool classes will offer programs to 60 children.

CURRENT SITUATION: The existing facility is located in the basement of a 50-unit apartment building. The entrance to the center is via a service entrance to the building which also provides access to tenant storage areas, laundry rooms, refuse pick-up area and loading zone. Plumbing, heating and electrical pipes and conduits, servicing the apartments above, are exposed at the ceiling of the center. There is insufficient headroom to install a suspended ceiling below the pipes. The pipes constitute a health hazard due to frequent leaks and an impossible dusting situation. The facility does not meet Child Development Services Program Standards in that the functional layout of the space precludes adequate separation of age groups, as well as hourly, part day and full day care programs. There are insufficient areas for infants under six months of age or children over seven years of age. Structural confines of the building preclude alteration of the space to meet the needs of the center. The needs of the Carlisle Barracks community are often not met because the child development center cannot accommodate all its patrons during peak demand periods. The present facility accommodates only 48 children, which is a shortfall of 51 child spaces from the 99 child spaces needed. There is no other facility available for use on the installation.

IMPACT IF NOT PROVIDED: If this project is not provided, the existing center will remain in use and will continue to have an adverse impact on the quality of life for parents and their children on this installation. The child capacity will be inadequate with no possibility for growth, there will be no adequate infant and toddler play area, persistent problems of space shared with quarters occupants, grossly inefficient area layouts, leaking ceilings and severe parking problems.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jan 89

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 55

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Carlisle Barracks, Pennsylvania		
4.PROJECT TITLE Child Development Center		5.PROJECT NUMBER 21436

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)
   (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
   (d) Design Complete Date .... Aug 90

(2) Basis:
   (a) Standard or Definitive Design - Yes X No ___
   (b) Where Design Was Most Recently Used Walter Reed Army Med Ct

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
   (a) Production of Plans and Specifications 50
   (b) All Other Design Costs 47
   (c) Total Cost 97
   (d) Contract 67
   (e) In-house 30

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	21
Installed Furnishings	OPA	91	58
		TOTAL	79

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Port Indiantown Gap Pennsylvania	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .94

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	42	138	497	0	0	0	17	101	170	965
B. END FY 95	42	139	497	0	0	0	17	101	170	966

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 18,065 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89..................................	41,035
C. AUTHORIZATION NOT YET IN INVENTORY..................................	0
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..................................	6,350
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..................................	0
F. PLANNED IN NEXT THREE YEARS..................................	19,590
G. REMAINING DEFICIENCY..................................	9,300
H. GRAND TOTAL..................................	76,275

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
422	09223	Ammunition Supply Point	1,350	09/85	08/90
432	22518	Cold Storage Warehouse	5,000	03/89	03/90
		SUBTOTAL PROJECTS OVER $1M	6,350		
		TOTAL	6,350		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE		
B. PLANNED NEXT THREE PROGRAM YEARS :		
141	REPL WWII RC BG A-13	4,450
141	REPL WWII AT BG A-12	3,650
610	POST HQ	2,700
832	STP UPGRADE	2,200
171	BATTLE SIM CENT	2,200
	SUBTOTAL PROJECTS OVER $1M	15,200
	TOTAL	15,200

10. MISSION OR MAJOR FUNCTIONS:

Fort Indiantown Gap is primarily dedicated to the support of Reserve Components of the US Army. Throughout the year, the installation also supports local, state and federal law enforcement agencies and an Air Ground Bombing Range operated by the Air National Guard.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Indiantown Gap Pennsylvania

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Indiantown Gap, Pennsylvania	4. PROJECT TITLE Ammunition Supply Point

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 422	7. PROJECT NUMBER 9223	8. PROJECT COST ($000) Auth 1,350 Approp 1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,040
Ammunition Warehouse	SF	4,000	58.75	(235)
Surveillance Building	SF	1,600	129.38	(207)
Guard House	SF	298	80.54	(24)
IDS Installation	LS	–	–	(11)
Security Lighting	LS	–	–	(97)
See Cost Estimates (Continued)				(466)
Supporting Facilities				186
Water, Sewer & Gas	LS	–	–	(51)
Storm Drainage	LS	–	–	(23)
Site Improvement	LS	–	–	(68)
Information Systems	LS	–	–	(44)
Subtotal				1,226
Contingency (5.00%)				61
Total Contract Cost				1,287
Supervision, Inspection & Overhead (6.00%)				77
Total Request				1,364
Total Request (Rounded)				1,350
Installed Equipment - Other Appropriations				(6)

10. Description of Proposed Construction Construct aboveground magazines, ammunition vehicle holding area, vehicle entry control point. Install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, paving, security fencing and lighting, fire protection and alarm systems, patrol road, access road, parking, well, septic tank, storm drainage, information systems, and site improvements. Heating and air conditioning (2 tons) will be provided by a self-contained system.

11. REQUIREMENT: 5,200 SF ADEQUATE: None SUBSTANDARD: 5,200 SF

PROJECT: Construct an aboveground magazine, ammunition vehicle holding area and vehicle entry control point. (Current Mission)

REQUIREMENT: This project is required to provide adequate storage space for large caliber ammunition, ammunition vehicles, and a secure entry control point in accordance with established Quantity-Distance Explosive Safety Standards.

CURRENT SITUATION: The existing bunkers are not large enough to allow large caliber ammunition to be loaded and unloaded with palletized equipment. Due to insufficient storage space, enormous amounts (100-200 tons) of ammunition must be stored outdoors. The existing vehicle ammunition holding area is in violation of Quantity-Distance Explosives Safety Standards. The existing

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		JAN 90

3. INSTALLATION AND LOCATION

Fort Indiantown Gap, Pennsylvania

4. PROJECT TITLE	5. PROJECT NUMBER
Ammunition Supply Point	9223

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Holding Area	LS	-	-	462
Information Systems	LS	-	-	4
			Total	466

guard house, a trailer, does not provide positive control at the vehicle entrance point.

IMPACT IF NOT PROVIDED: If this project is not provided, the installation will be in violation of explosive safety standards due to outside storage of large caliber ammunition at the aboveground magazine. The existing procedures of manually loading and unloading large caliber ammunition will continue, which is expensive and in violation of established safety standards. At the ammunition vehicle holding area the installation will continue to operate in violation of Quantity-Distance Explosive Safety Standards. The security guards will still not have the positive control of the vehicle entry control point they require.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Other Installations. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($1,541 K) is recommended as more cost effective than Other Installations ($8,445 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Sep 85

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Aug 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 40

(b) All Other Design Costs 28

(c) Total Cost 68

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Indiantown Gap, Pennsylvania		
4.PROJECT TITLE Ammunition Supply Point		5.PROJECT NUMBER 9223

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)	($000)
(d) Contract	47
(e) In-house	21
(4) Construction Start	Feb 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	6
		TOTAL	6

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Indiantown Gap, Pennsylvania	4. PROJECT TITLE Cold Storage Warehouse

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 432	7. PROJECT NUMBER 22518	8. PROJECT COST ($000) Auth 5,000 Approp 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,937
Cold/Dry Storage Warehouse	SF	49,704	79.00	(3,927)
Information Systems	LS	-	-	(10)
Supporting Facilities				569
Electric Service	LS	-	-	(60)
Water, Sewer & Gas	LS	-	-	(220)
Paving, Walks, Curbs & Gutters	LS	-	-	(103)
Storm Drainage	LS	-	-	(27)
Site Improvement (125) Demolition (27)	LS	-	-	(152)
Information Systems	LS	-	-	(7)
Subtotal				4,506
Contingency (5.00%)				225
Total Contract Cost				4,731
Supervision, Inspection & Overhead (6.00%)				284
Total Request				5,015
Total Request (Rounded)				5,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a cold and dry storage warehouse. The building will be divided to provide separate storage areas for frozen foods, dry storage and refrigerated produce, warehouse office, administrative, coal bin and circulation and mechanical room. Supporting facilities include utilities, electric service, fire protection and alarm systems, paving, walks, curbs and gutters, fencing, storm drainage, information systems, and site improvements. Demolish two buildings (10,738 SF).

11. REQUIREMENT: 49,855 SF ADEQUATE: None SUBSTANDARD: 34,517 SF

PROJECT: Construct a cold and dry storage warehouse. (Current Mission)

REQUIREMENT: This project is required to provide dry, refrigerated storage for all prepackaged frozen food and fresh perishable rations to support Active and Reserve Component training at Fort Indiantown Gap, as well as off-post Reserve Centers located throughout Eastern Pennsylvania. The complex will be used seven days a week. Adequate permanent facilities are not available to support this mission.

CURRENT SITUATION: The existing food and dry storage structures were designed during the 1930s and built as a World War II mobilization facility. Replacement parts for the failing refrigeration equipment have become extremely difficult to obtain. This has become an engineering problem because

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Indiantown Gap, Pennsylvania		
4. PROJECT TITLE Cold Storage Warehouse		5. PROJECT NUMBER 22518

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
the original manufacturers are either no longer in business or have sold all their patent rights to other firms. Due to the poor condition of the structures, their antiquated cooling system and excessive deterioration of insulation in the walls and ceiling, the annual operations and maintenance costs have reached an unacceptable level. The frequency of outages and length of time necessary to perform mechanical repairs in order to maintain prescribed temperatures are unsatisfactory. This ongoing problem resulted in the loss of 6,171 pounds of perishable rations over the last three years. During warm weather the temperature in the chilled areas, used for the storage of fruits and vegetables, cannot be maintained low enough to prevent condensation from forming on the roof and walls. Constant dripping water plus the rain entering the deteriorated ceiling areas descends directly on the produce. During the fourth quarter of FY 86 the freezer section varied from 14 degrees to 24 degrees F. The required temperature for this zone is zero degrees F. During this same period the chilled sections, required to be maintained at 38 degrees F, rose as high as 48 degrees F.
IMPACT IF NOT PROVIDED: If this project is not provided, the loss of food due to unacceptable refrigeration temperatures will continue. Monthly Veterinary Services Branch inspections clearly indicate that acceptable temperature levels for frozen foods and chilled items cannot be met in the present facility. This reduces the shelf life of food and causes a severe risk to the health of soldiers consuming products issued from this facility.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 70
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Mar 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 189

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Indiantown Gap, Pennsylvania		
4.PROJECT TITLE Cold Storage Warehouse		5.PROJECT NUMBER 22518

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)	($000)
(b) All Other Design Costs	135
(c) Total Cost	324
(d) Contract	225
(e) In-house	99
(4) Construction Start	Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Tobyhanna Army Depot Pennsylvania	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX 1.09

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	13	31	4243	0	0	0	2	9	130	4,428
B. END FY 95	12	57	4695	0	0	0	2	9	130	4,905

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	1,293 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..........	69,668
C. AUTHORIZATION NOT YET IN INVENTORY..........	0
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..........	6,800
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........	0
F. PLANNED IN NEXT THREE YEARS..........	16,614
G. REMAINING DEFICIENCY..........	74,943
H. GRAND TOTAL..........	168,025

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
217	09077	Satellite Communications Systems Maint Fac	6,800	07/88	08/90
		SUBTOTAL PROJECTS OVER $1M	6,800		
		TOTAL	6,800		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE		
B. PLANNED NEXT THREE PROGRAM YEARS :		
217	Tactical Component Rebuild Facility	7,400
441	COMMO SYSTEMS MAINT FAC	7,100
	SUBTOTAL PROJECTS OVER $1M	14,500
442	HAZARD MAT'L CONTROL FAC	914
800	HEAT RECOVERY INCINERATOR	820
800	Energy Monitoring and Control System	380
	SUBTOTAL PROJECTS $1M & LESS	2,114
	TOTAL	16,614

10. MISSION OR MAJOR FUNCTIONS:

Depot Mission: To operate a supply and maintenance depot providing for the receipt, storage, maintenance, issue and disposal of assigned commodities; to provide installation support to attached organizations, and to operate assigned facilities. (Authority: DESCOM-R 10-1) Major

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Tobyhanna Army Depot Pennsylvania

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

Functions:

a. Supply (Stock Distribution - Storage): Provides logistical support to MRCs/NICPs to include project coordination, shipment planning and control, inventory management and maintenance of custodial records, and preservation, packing, marking and storage of all materials.

b. Maintenance: Ground, airborne, navigational, and satellite communications - electronics equipments and missile systems. Worldwide maintenance field service support (on-site) for AUTODIN, SATCOM and interrupted power systems (UPS), AN/TYC-39, and AN/TTC-39.

Special Workloads: Provide project design and development service for Special Fabrication Projects (SFP), including procurement data packages. Serve as the Center of Technical Excellence (CTX) for designated new or product improved systems and subsystems. Provide life cycle support, including DMWR and DMSP preparation, special fabrication, verification/validation, physical teardown, and logistics support planning. Operate an automated test system programming facility. Maintain a test program set (TPS) repository for CECOM. Serve as a DESCOM TPS Support Center.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Tobyhanna Army Depot, Pennsylvania	4. PROJECT TITLE Satellite Systems Maintenance Facility

5. PROGRAM ELEMENT 71109A	6. CATEGORY CODE 217	7. PROJECT NUMBER 9077	8. PROJECT COST ($000) Auth 6,800 Approp 6,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,179
Electronic Maintenance Shop	SF	68,200	74.85	(5,105)
Information Systems	LS	-	-	(74)
Supporting Facilities				974
Electric Service	LS	-	-	(110)
Water, Sewer & Gas	LS	-	-	(375)
Steam, Chilled Water & Heat Distribution	LS	-	-	(71)
Paving, Walks, Curbs & Gutters	LS	-	-	(134)
Storm Drainage	LS	-	-	(35)
Site Improvement	LS	-	-	(209)
Information Systems	LS	-	-	(40)
Subtotal				6,153
Contingency (5.00%)				308
Total Contract Cost				6,461
Supervision, Inspection & Overhead (6.00%)				388
Total Request				6,849
Total Request (Rounded)				6,800
Installed Equipment - Other Appropriations				(247)

10. Description of Proposed Construction Construct an electronic maintenance shop with a mezzanine for administrative and engineering support. Supporting facilities include utilities, electric service, storm drainage, steam distribution system, paving, walks, curbs and gutters, fire protection and alarm systems, remove overhead power lines, information systems, and site improvements. Access for the handicapped will be provided. Heating will be provided by an existing steam generating plant and air conditioning (240 tons) will be provided by a self-contained system.

11. REQUIREMENT: 68,200 SF ADEQUATE: None SUBSTANDARD: 21,472 SF

PROJECT: Construct an electronic maintenance shop for prototype fabrication, staging, repair and overhaul of Satellite Communications (SATCOM) Systems and equipment. (Current Mission)

REQUIREMENT: This project is required to provide a more efficient work area to meet scheduling requirements in the SATCOM Systems operations. The complexity of the systems and the requirements for testing and repair necessitates large staging areas and improved in-process flow to meet mission scheduling requirements. There are no alternate facilities on the installation or at nearby installations that could be used to satisfy this requirement.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Tobyhanna Army Depot, Pennsylvania		
4. PROJECT TITLE Satellite Systems Maintenance Facility		5. PROJECT NUMBER 9077

11. REQUIREMENT: (Continued)

CURRENT SITUATION: Repair, overhaul, staging, testing and prototype fabrication are performed in a building which receives frequent through traffic from adjacent shops which hinders the flow of work and diminishes the security of operations. The shop cannot be expanded or reconfigured, and the antenna test area is remote from the present working site.

IMPACT IF NOT PROVIDED: If this project is not provided, the expanding workload will require programmed overtime and multiple shifts, with costs reaching $3.7 million per year (project payback is 2.5 years). The work area congestion from increasingly complex components and systems will constrain productivity, efficiency, and quality assurance, with potential direct impacts on product quality, reliability and costs. Reliance on private sector contracting to reduce these impacts is inappropriate, since much of the work involves prototypes, without finalized designs and specifications.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has received authorization for funding under the Office of the Secretary of Defense (OSD) Productivity Investment Funding Program. An economic analysis has been performed in accordance with Department of Defense Instruction 5010.36 (Productivity Enhancing Capital Investments), and Army Regulation 5-4 (Department of the Army Productivity Improvement Program). The analysis compares New Construction to Status Quo and reports that the investment will have a discounted payback period of 2.7 years.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jul 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	60
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Aug 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications	513.8
(b) All Other Design Costs	121
(c) Total Cost	634
(d) Contract	23.9

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Tobyhanna Army Depot, Pennsylvania

4. PROJECT TITLE Satellite Systems Maintenance Facility	5. PROJECT NUMBER 9077

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 611.1

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	247
		TOTAL	247

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
South Carolina		Fort Jackson (TRADOC)				255
	12719	Automated Record Fire Range		1,600	1,600	257
		SUBTOTAL Fort Jackson PART I	$	1,600	1,600	
		* TOTAL MCA FOR South Carolina	$	1,600	1,600	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Jackson South Carolina	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .80

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	541	3064	2161	15	11689	1	27	48	13	17,559
B. END FY 95	706	3814	2459	15	12553	0	27	48	13	19,635

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	52,304 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	245,000
C. AUTHORIZATION NOT YET IN INVENTORY..................................	31,819
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	1,600
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	7,300
F. PLANNED IN NEXT THREE YEARS..	71,716
G. REMAINING DEFICIENCY..	337,327
H. GRAND TOTAL..	694,762

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	12719	Automated Record Fire Range	1,600	08/85	05/90
		SUBTOTAL PROJECTS OVER $1M	1,600		
		TOTAL	1,600		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
214	Consolidated Field Maintenance Facility	5,900
730	Fire Station	1,400
	SUBTOTAL PROJECTS OVER $1M	7,300
	TOTAL	7,300
B. PLANNED NEXT THREE PROGRAM YEARS :		
214	Consolidated Field Maintenance Complex	23,000
219	POST ENGR FAC COMPLEX	12,139
610	ADMIN/OPNS COMPLEX	6,500
	SUBTOTAL PROJECTS OVER $1M	41,639
	TOTAL	41,639

10. MISSION OR MAJOR FUNCTIONS:

To provide logistical support and facilities for a U.S. Army training center for enlisted personnel and a U.S. Army reception station. Support of summer reserve training and military entrance processing station. Also support of U.S. Army hospital (435) and TO&E/TDA STRAF units.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Jackson South Carolina

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Jackson, South Carolina	4.PROJECT TITLE Automated Record Fire Range

5.PROGRAM ELEMENT 85796A	6.CATEGORY CODE 179	7.PROJECT NUMBER 12719	8.PROJECT COST ($000) Auth 1,600 Approp 1,600

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,356
Automated Record Fire Range	LS	-	-	(1355)
Information Systems	LS	-	-	(1)
Supporting Facilities				84
Electric Service	LS	-	-	(17)
Storm Drainage	LS	-	-	(38)
Site Improvement (0) Demolition (28)	LS	-	-	(28)
Information Systems	LS	-	-	(1)
Subtotal				1,440
Contingency (5.00%)				72
Total Contract Cost				1,512
Supervision, Inspection & Overhead (6.00%)				91
Total Request				1,603
Total Request (Rounded)				1,600
Installed Equipment - Other Appropriations				(795)

10.Description of Proposed Construction Construct a standard-design automated record fire range consisting of 16 lanes, each 20 meters wide. Primary facilities include all construction within the perimeter of the range complex and consist of target emplacements with protective berms, control tower, information systems, personnel and storage facility, weapons cleaning and ammunition dispensing shelters, toilets, mess shelter, water points, utility building, and foxholes. All buildings will be supplied with adequate lightning protection. Supporting facilities include all construction outside the perimeter of the range complex and consist of electric service, storm drainage, fencing, information systems, access roads, parking, and site improvements. Demolish an existing range. Targetry will be provided by other project appropriations (OPA).

11. REQUIREMENT: 4 EA ADEQUATE: 1 EA SUBSTANDARD: 1 EA

PROJECT: Construct a standard-design automated record fire range. (Current Mission)

REQUIREMENT: This project is required to provide range sites for integrating the use of modern range equipment with remoted target systems (RETS) in evaluating the individual soldier's ability to engage multiple targets in a time-constrained training environment. This range will provide

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Jackson, South Carolina

4. PROJECT TITLE Automated Record Fire Range	5. PROJECT NUMBER 12719

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
for the possible future addition of moving targets and carriers, if required.
CURRENT SITUATION: Basic Rifle Marksmanship (BRM) is now conducted on outdated and maintenance intensive Fully Automated Scoring Target (FAST) ranges, utilizing training methodology as coordinated by the Army Research Institute and Army Marksmanship Unit in the Training Directorate of the Infantry School. The current FAST system has proven to be marginally effective in the improvement of BRM training; however, the BRM training range severely limits the soldiers' training in engaging targets within realistic combat scenarios which are made available through the standard RETS training.
IMPACT IF NOT PROVIDED: If this project is not provided, the existing inadequate ranges will continue to be used. This will result in continued waste of vital prime training time and the failure of soldiers to be adequately trained to an acceptable proficiency level. Proper evaluation of the most basic and critical skills of engaging and defeating the enemy on the modern battlefield will not be possible.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Using a Range at a Nearby Installation. Life cycle costs for both alternatives were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($3,646 K) is recommended as more cost effective than Using a Range at a Nearby Installation ($6,854 K).

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Aug 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 45
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... May 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Fort Hood, Texas

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 97
(b) All Other Design Costs 140
(c) Total Cost 237
(d) Contract 97

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Jackson, South Carolina		
4. PROJECT TITLE Automated Record Fire Range		5. PROJECT NUMBER 12719

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 140

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Target Mechanisms	OPA	91	795
		TOTAL	795

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) / PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Texas		Fort Hood (FORSCOM)			263
	4718	Modified Record Fire Range	1,650	1,650	265
	7152	Range Control Facility	4,400	4,400	268
	8939	Consolidated Maintenance Facility	22,700	22,700	271
	13707	Range Modernization	3,050	3,050	274
	22610	Barracks Modernization	11,000	11,000	277
	32014	Replace Vehicular Bridges	469	469	280
		SUBTOTAL Fort Hood PART I	$ 43,269	43,269	
		Fort Sam Houston (FORSCOM)			283
	2526	Physical Fitness Training Center	7,100	7,100	285
	11417	Medical Research Laboratory	13,400	13,400	288
	12204	Consolidated Maintenance Facility	13,200	13,200	291
		SUBTOTAL Fort Sam Houston PART I	$ 33,700	33,700	
		* TOTAL MCA FOR Texas	$ 76,969	76,969	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Hood Texas	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .84

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	4473	34352	3700	17	268	0	55	103	0	42,968
B. END FY 95	4359	34770	4009	17	269	0	55	103	0	43,582

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	216,923 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	721,347
C. AUTHORIZATION NOT YET IN INVENTORY	128,016
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	43,269
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	22,000
F. PLANNED IN NEXT THREE YEARS	200,250
G. REMAINING DEFICIENCY	1,303,569
H. GRAND TOTAL	2,418,451

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	04718	Modified Record Fire Range	1,650	02/88	03/91
171	07152	Range Control Facility	4,400	01/89	07/90
214	08939	Consolidated Maintenance Facility	22,700	06/89	06/90
179	13707	Range Modernizations	3,050	03/89	03/90
721	22610	Barrack Modernization	11,000	12/89	11/90
		SUBTOTAL PROJECTS OVER $1M	42,800		
851	32014	Replace Vehicular Bridges	469	04/90	01/91
		SUBTOTAL PROJECTS $1M & LESS	469		
		TOTAL	43,269		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
214	Consolidated Maintenance Facility Ph III	22,000
	SUBTOTAL PROJECTS OVER $1M	22,000
	TOTAL	22,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
721	ADDN NPH TRNG FAC,PH1	20,762
214	TACTICAL EQUIPMENT SHOP	12,000
	SUBTOTAL PROJECTS OVER $1M	32,762
	TOTAL	32,762

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Hood Texas

10. MISSION OR MAJOR FUNCTIONS:
The primary activities at Fort Hood are all oriented toward the training of combat, combat support and combat service support units, primarily through maneuver and live-fire training exercises.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Hood, Texas	4.PROJECT TITLE Modified Record Fire Range

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 179	7.PROJECT NUMBER 4718	8.PROJECT COST ($000) Auth 1,650 Approp 1,650

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,215
Control Tower	SF	115	373.91	(43)
General Instruction Building	SF	824	54.61	(45)
Maintenance Building	SF	824	54.61	(45)
Ammunition Breakdown Building	SF	180	72.22	(13)
Covered Mess	SF	760	25.00	(19)
See Cost Estimates (Continued)				(1,050)
Supporting Facilities				275
Electric Service	LS	–	–	(93)
Paving, Walks, Curbs & Gutters	LS	–	–	(17)
Site Improvement (26) Demolition (9)	LS	–	–	(35)
Information Systems	LS	–	–	(130)
Subtotal				1,490
Contingency (5.00%)				75
Total Contract Cost				1,565
Supervision, Inspection & Overhead (6.00%)				94
Total Request				1,659
Total Request (Rounded)				1,650
Installed Equipment - Other Appropriations				(340)

10.Description of Proposed Construction Construct a Modified Record Fire Range consisting of 16 firing lanes. Each lane is 20 meters wide and displays nine stationary targets from 50 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operation and storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking area, foxholes, target emplacements, secondary power and data distribution systems, information systems, and site improvements. Heating and air conditioning (2 tons) will be provided by a self-contained system for the control tower. Supporting facilities include all construction outside the perimeter of the range complex and consist of primary power, paving, storm drainage, information systems, and site improvements. Targetry to be funded by other project appropriations (OPA).

11. REQUIREMENT: 3 EA ADEQUATE: None SUBSTANDARD: 3 EA

PROJECT: Construct Modified Record Fire (MRF) range at the Black Gap Record Fire Range site. (Current Mission)

REQUIREMENT: This project is required to provide modern training range facilities with remote target systems for basic rifle marksmanship training.

CURRENT SITUATION: Basic rifle marksmanship training is being conducted on

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		JAN 90

3. INSTALLATION AND LOCATION

Fort Hood, Texas

4. PROJECT TITLE	5. PROJECT NUMBER
Modified Record Fire Range	4718

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Bleacher Enclosure	SF	588	25.51	15
Latrines (2)	SF	384	187.50	72
Station Target Emplacements	EA	172	1,134	195
Hostile Fire Sim. Emplacements	EA	16	437.50	7
Concrete Foxholes	EA	16	1,000	16
UG Electrical Distribution	LF	72,030	8.07	581
Electrical Trenching	LF	40,600	3.47	141
Transformer	EA	6	2,000	12
Flagpoles	LS	-	-	6
Lane Markers	EA	16	62.50	1
Public Address System	LS	-	-	3
Information Systems	LS	-	-	1
			Total	1,050

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
inadequate, obsolete facilities using World War II training methodology. These ranges are not configured with any type of automated target system which is able to test, report, and analyze the individual soldier's ability to correctly engage multiple targets in a time-constrained training environment. Current system is time consuming, inefficient, and resource intensive.

IMPACT IF NOT PROVIDED: If this project is not provided, the existing ranges will remain unrealistic, in an advanced state of deterioration, manpower intensive, and extremely time consuming. Often the results are poorly trained soldiers not ready for combat situations. Failure to achieve necessary levels of proficiency could prove to have a terrible effect on the early days of armed conflict and, in fact, could be pivotal in determining success or failure of our forces.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Feb 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)........ 50

(c) Percent Complete As Of 01 October 90 (PROG YR)........ 95

(d) Design Complete Date .... Mar 91

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Hood, Texas		
4. PROJECT TITLE Modified Record Fire Range		5. PROJECT NUMBER 4718

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

		($000)
(3)	Total Cost (c) = (a)+(b) or (d)+(e):	
(a)	Production of Plans and Specifications	102
(b)	All Other Design Costs	43
(c)	Total Cost	145
(d)	Contract	0
(e)	In-house	145

(4) Construction Start .... May 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Target Mechanisms	OPA	91	340
		TOTAL	340

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Hood, Texas	4.PROJECT TITLE Range Control Facility

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 171	7.PROJECT NUMBER 7152	8.PROJECT COST ($000) Auth 4,400 Approp 4,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,326
Range Command/Control Facility	SF	40,096	66.69	(2,674)
Information Systems	LS	-	-	(109)
Radio Antenna Tower	LS	-	-	(19)
Paint/Lumber Storage Building	SF	2,304	54.25	(125)
Military Vehicle Hardstand	SY	8,800	25.80	(227)
30 Inch Diam. Drilled Piers	LF	4,525	38.00	(172)
Supporting Facilities				647
Electric Service	LS	-	-	(150)
Water, Sewer & Gas	LS	-	-	(99)
Paving, Walks, Curbs & Gutters	LS	-	-	(134)
Storm Drainage	LS	-	-	(9)
Site Improvement (124) Demolition (38)	LS	-	-	(162)
Information Systems	LS	-	-	(93)
Subtotal				3,973
Contingency (5.00%)				199
Total Contract Cost				4,172
Supervision, Inspection & Overhead (6.00%)				250
Total Request				4,422
Total Request (Rounded)				4,400
Installed Equipment - Other Appropriations				(39)

10.Description of Proposed Construction Construct a building to house the Operations Staff for the Range Control Division, computerized range planning and management systems, briefing and debriefing rooms, classrooms, administrative space, shops for target construction and repair and a maintenance shop for range vehicles and target mechanisms, radio antenna tower, storage buildings, and drilled piers. Supporting facilities include utilities, electric service, lighting, fire protection and alarm systems, roads, paving, walks, curbs and gutters, parking, fencing and gates, storm drainage, information systems, and site improvements. Heating will be provided by self-contained gas-fired furnace for the administration area and infrared heating in the shop area. Demolish eight buildings (11,132 SF). Air conditioning (30 tons) will be provided for the administration area. Access for the handicapped will be provided.

11. REQUIREMENT: 44,000 SF ADEQUATE: None SUBSTANDARD: 18,510 SF

PROJECT: Construct a range control facility. (Current Mission)

REQUIREMENT: This project is required to upgrade a grossly inadequate range control complex for efficient scheduling, operation and control of the Fort Hood training areas and ranges which cover 236 square miles.

CURRENT SITUATION: The Range Division is currently located in nine

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Hood, Texas		
4.PROJECT TITLE Range Control Facility		5.PROJECT NUMBER 7152

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
temporary buildings with construction dates as far back as World War II. During FY 87, the range administrative staff coordinated the use of 60 ranges for 525,600 hours. Represented in these training hours were Fort Hood military, Texas Army National Guard and Reserves, various guard units from other states, two wings of active Air Force, one wing of Air Force reserves, Air Force ground training in live fire weapons, two naval fighter squadrons, two marine squadrons, and 2,500 sorties from various air bases across the United States. Each hour of range training represents active participation by as few as a two-man sortie air crew to more than a heavy armored division on maneuvers. More than $61 million dollars has been funded or programmed to update the ranges from using World War II targetry which uses salvaged jeeps to power moving targets, to state-of-the-art computer programmed and controlled automated target mechanisms and laser technology. The present range control complex cannot support the repair, testing, and storing of the tremendous amount of highly sophisticated electronic equipment necessary for the operation of the ranges, and the control of access to the ranges by the great variety of units and persons requiring access.,
IMPACT IF NOT PROVIDED: If this project is not provided, the existing antiquated and undersized facilities will continue to be incapable of meeting minimum levels of support and will result in degraded training programs and reduction of readiness levels. Failure to achieve the necessary levels of proficiency could prove to have a serious negative impact during the early days of armed conflict and, in fact, could be pivotal in determining success or failure of our forces.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jan 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 90
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jul 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Hood, Texas		
4.PROJECT TITLE Range Control Facility		5.PROJECT NUMBER 7152

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	188
(b)	All Other Design Costs	219
(c)	Total Cost	407
(d)	Contract	313
(e)	In-house	94

(4) Construction Start .... Dec 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	39
		TOTAL	39

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Hood, Texas	4. PROJECT TITLE Consolidated Maintenance Facility

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 8939	8. PROJECT COST ($000) Auth 22,700 Approp 22,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				17,670
Consolidated Shop Building	SF	58,308	92.00	(5,364)
Paint & Sand Blast Building	SF	15,100	110.41	(1,667)
Wash & Scheduled Maint Fac	SF	10,000	65.38	(654)
Addn to Customer Service Bldg	SF	43,000	81.70	(3,513)
Drilled Piers	LF	2,908	37.42	(109)
See Cost Estimates (Continued)				(6,363)
Supporting Facilities				2,725
Electric Service	LS	-	-	(312)
Water, Sewer & Gas	LS	-	-	(325)
Paving, Walks, Curbs & Gutters	LS	-	-	(308)
Storm Drainage	LS	-	-	(489)
Site Improvement (1056) Demolition (117)	LS	-	-	(1,173)
Information Systems	LS	-	-	(99)
Fuel Oil Storage	LS	-	-	(19)
Subtotal				20,395
Contingency (5.00%)				1,020
Total Contract Cost				21,415
Supervision, Inspection & Overhead (6.00%)				1,285
Total Request				22,700
Total Request (Rounded)				22,700
Installed Equipment - Other Appropriations				(28)

10. Description of Proposed Construction Construct Phase II of a standard-design consolidated maintenance facility with general support tactical vehicle shop with 35-ton cranes, material handling equipment (MHE) and special purpose equipment shop, wood, body, tire repair and lead acid battery shop; a wash and scheduled maintenance facility, paint and sand blasting facility, access road and tank trail, railroad overpass, diesel and motor gasoline (MOGAS) fuel station, two vehicle loading ramps, and tank-capable hardstand; and extend the Phase I customer service building, providing a sentry and quality assurance office, and an electrics, communications, and calibration shop. Supporting facilities include utilities, electric service, walks, curbs and gutters, storm drainage, information systems, fencing, area and perimeter lighting, and site improvements with pile foundation. Heating and air conditioning (124 tons) will be provided by dual-fuel (natural gas and fuel oil) self-contained systems. Access for the handicapped will be provided in the light maintenance and administrative areas. Demolish five buildings (35,745 SF).

11. REQUIREMENT: 454,820 SF ADEQUATE: 274,448 SF SUBSTANDARD: 287,168 SF

PROJECT: Construct Phase II of a standard-design consolidated maintenance facility. (Current Mission)

REQUIREMENT: This project is required for the general support and direct

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Hood, Texas		
4. PROJECT TITLE Consolidated Maintenance Facility		5. PROJECT NUMBER 8939

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Fuel Station	GA	24,500	4.00	98
Access Roads	SY	35,865	47.68	1,710
Hardstand	SY	60,190	47.68	2,870
Railroad Overpass	EA	1	694,000	694
Tank Trail	SY	30,335	22.40	679
Vehicle Loading Ramp	EA	2	20,265	41
Maintenance Shed	SF	2,500	36.27	91
Information Systems	LS	-	-	180
			Total	6,363

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) support maintenance of two armored divisions and a Corps headquarters, and to support command, active and reserve units in 176 counties of Northern Texas. These units contain more than 2,000 tracked and 9,000 wheeled vehicles.

CURRENT SITUATION: The 16 temporary, two semi-permanent, and three permanent buildings used by the maintenance division are separated by as much as three quarters of a mile. The temporary buildings were built in the 1940s to maintain light armor and infantry units. The buildings are inefficient in support of two heavy armored divisions. Fort Hood's troop housing and administrative construction have separated the shops from the unit motor pools so that tanks now have to be transported on retrievers or road marched with ground guides and escort vehicles through heavily populated areas. These conditions create inefficient general support and direct support maintenance operations, extend vehicle and equipment repair times, degrade the morale and productivity of skilled personnel, and adversely impact mission training and readiness. The remaining facilities to be vacated by the maintenance activity are urgently needed by the Corps Support Command for unit motor pools - a function more compatible with the condition and location of the existing maintenance division area. Fort Hood has a tactical equipment shop deficiency of 678,730 SF.

IMPACT IF NOT PROVIDED: If this project is not provided, an estimated $180,000 in manpower will continue to be lost annually in movement of people and material between widely separated shops. Duplicate stockage of supplies (estimated $3.5 million) and tools ($500,000) will continue. The antiquated World War II buildings will continue in service and $510,000 will have to be spent on an existing backlog of maintenance and repair on these buildings. Demolition of 13 buildings (134,512 SF) will be delayed. High cost, complex components will continue to be overhauled in antiquated buildings that marginally meet Occupational Safety and Health Administration (OSHA) standards, are maintenance intensive, and do not allow the use of modern methods and equipment. Movement of tanks and large combat vehicles through a

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Hood, Texas		
4. PROJECT TITLE Consolidated Maintenance Facility		5. PROJECT NUMBER 8939

11. REQUIREMENT: (Continued)
IMPACT IF NOT PROVIDED: (Continued)
garrison area will continue to be a safety hazard and a waste of time.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis was prepared to analyze all three phases of the Consolidated Maintenance Facility (Projects 502, 8939, and 15646). The economic analysis compared Phased Construction with renovation, to Phased Construction only. The life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. Phased construction with Renovation ($80,475 K) is recommended as more cost effective than Phased Construction only ($96,958 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jun 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	80
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jun 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Hood, Texas

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	1,264
(b) All Other Design Costs	136
(c) Total Cost	1,400
(d) Contract	1,024
(e) In-house	376

(4) Construction Start .... Jan 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	28
		TOTAL	28

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Hood, Texas	4.PROJECT TITLE Range Modernization

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 179	7.PROJECT NUMBER 13707	8.PROJECT COST ($000) Auth 3,050 Approp 3,050

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,686
Instruction Buildings (2)	SF	2,800	60.36	(169)
Latrines	LS	-	-	(92)
ATTS Emplacements	EA	54	8,259	(446)
IRETS Emplacements	EA	130	553.85	(72)
Moving Target Emplacement	LS	-	-	(183)
See Cost Estimates (Continued)				(1,724)
Supporting Facilities				57
Storm Drainage	LS	-	-	(4)
Site Improvement	LS	-	-	(44)
Information Systems	LS	-	-	(9)
Subtotal				2,743
Contingency (5.00%)				137
Total Contract Cost				2,880
Supervision, Inspection & Overhead (6.00%)				173
Total Request				3,053
Total Request (Rounded)				3,050
Installed Equipment - Other Appropriations				(872)

10.Description of Proposed Construction Modernize two multi-purpose training ranges at Clabber Creek and Sugarloaf. Primary facilities include all construction within the perimeter of the range complex and consist of emplacements for 54 Automatic Tank Target System (ATTS) actuators and 117 personnel target mechanisms (PTM), and one Armor Clabber Creek Range, and 24 ATTS, 54 PTMs and one Automated Maneuver Training Command (AMTC) on Sugarloaf Range. Construct two instruction (briefing/debriefing) buildings, maintenance buildings, and two latrines. Heating and air conditioning (5 tons) will be provided by self-contained units. Supporting facilities include facilities outside the range complex perimeter and consist of storm drainage, information systems, and site improvements. Targetry to be funded by other project appropriations (OPA).

11. REQUIREMENT: 2 EA ADEQUATE: None SUBSTANDARD: 2 EA

PROJECT: Modernize two ranges and construct two instruction/maintenance buildings. (Current Mission)

REQUIREMENT: This project is required to provide hardwired, computer-controlled pop-up tank and personnel targets to meet M-1 and M-60 tank and Bradley Fighting Vehicle gunnery requirements and to provide one instruction/maintenance building and latrine per range for briefing/debriefing

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Hood, Texas		
4.PROJECT TITLE Range Modernization		5.PROJECT NUMBER 13707

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Electrical	LS	-	-	1,675
Access Road	SY	4,040	6.93	28
Maintenance Road	SY	3,376	5.63	19
Information Systems	LS	-	-	2
			Total	1,724

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
and maintenance of range equipment. This project will enable the Clabber Creek and Sugarloaf ranges to meet M-1, M-2, M-3, and M-60 gunnery requirements mandated by Department of the Army for two active Army divisions and one Texas Army National Guard Armored Division.

CURRENT SITUATION: The existing pop-up tank targets and personnel targets are manually remotely controlled. The target actuators are powered by batteries and thermalized by 1.5 KW portable generators. The batteries and generators must be set in place and started running before firing can commence on the range and then returned to range control for storage. This mode of operation severely limits the scenarios that can be presented to meet prescribed gunnery exercises and realistic training conditions.

IMPACT IF NOT PROVIDED: If this project is not provided, Fort Hood will be unable to meet the crew proficiency training program. Fort Hood will have weapons systems without adequately trained personnel to man them thus reducing the overall readiness level of its two divisions, a division of the Texas Army National Guard and reserve units from seven states.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 90
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Mar 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Hood, Texas		
4. PROJECT TITLE Range Modernization		5. PROJECT NUMBER 13707

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	8
(b) All Other Design Costs	288
(c) Total Cost	296
(d) Contract	0
(e) In-house	296

(4) Construction Start .... Nov 90 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Armor Moving Target Carrier	OPA	91	118
Armor Target Kill System	OPA	91	51
Auto Tank Target System	OPA	91	212
Infantry Target Sys	OPA	91	144
Target Interface	OPA	91	256
Junction Box	OPA	91	91
		TOTAL	872

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Hood, Texas	4. PROJECT TITLE Barracks Modernization

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 721	7. PROJECT NUMBER 22610	8. PROJECT COST ($000) Auth 11,000 Approp 11,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				9,226
Barracks Rebuild	SF	118,385	46.70	(5,529)
Convert Barracks to Admin	SF	35,810	42.00	(1,504)
Upgrade Existing Admin Areas	SF	21,070	46.50	(980)
Upgrade Attached Dining Fac.	SF	10,000	42.00	(420)
Upgrade Arms Room	SF	5,000	71.71	(359)
See Cost Estimates (Continued)				(434)
Supporting Facilities				223
Electric Service	LS	-	-	(17)
Water, Sewer & Gas	LS	-	-	(48)
Paving, Walks, Curbs & Gutters	LS	-	-	(67)
Site Improvement	LS	-	-	(53)
Information Systems	LS	-	-	(38)
Subtotal				9,449
Contingency (10.00%)				945
Total Contract Cost				10,394
Supervision, Inspection & Overhead (6.00%)				624
Total Request				11,018
Total Request (Rounded)				11,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Rebuild five barracks to current standards. Work includes converting first floor space within each building to unit administrative and supply areas, replacement of roofs, doors, windows, ceiling and floor tile, paint, and asbestos removal. Upgrade arms room. Administrative space includes upgrading to meet the requirements of modern office equipment and the work space environment. Attached dining facilities will be upgraded architecturally to match the new facility. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, information systems, and site improvements. Heating and air conditioning (480 tons) will be provided by self-contained units. Access for the handicapped will be provided. Demolish existing walls, mechanical, and electrical systems, piping and valves, water closets and showers.

11. REQUIREMENT: 18,269 PN ADEQUATE: 8,492 PN SUBSTANDARD: 13,992 PN

PROJECT: Rebuild five barracks including converting first floor space to company administrative and supply area. (Current Mission)

REQUIREMENT: This project is required to continue the work of modernizing existing barracks to provide adequate housing for 392 E1-4, and 84 E5-6 for a total of 476 EP (560 spaces). These barracks were constructed in FY 53 as troop billets. This project will replace equipment that has reached the end

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Hood, Texas

4. PROJECT TITLE Barracks Modernization	5. PROJECT NUMBER 22610

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Asbestos Removal	SF	39,500	5.52	218
Information Systems	LS	-	-	216
			Total	434

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) of its economic life and provide a better quality-of-life environment for today's enlisted soldier. This is the second of 16 barracks rebuilding projects for Fort Hood. This project will rebuild five barracks including converting an additional 35,810 SF of first floor space to company administrative and supply area (total 56,800 SF). By converting first floor space to company operations and supply, over 50 million SF in identified company operations and supply facilities will no longer be required and can be deleted from Fort Hood's MCA Program upon completion of the 16 project barracks rebuild program.

CURRENT SITUATION: There are over 100 permanent barracks buildings on Fort Hood. The last to be constructed was in 1976. The existing air conditioning system for the 10000 block barracks is inefficient and requires frequent repairs. The existing domestic hot water system is unable to meet the demand at peak use times. The 10000 block consists of 16 barracks, five of which are to be rebuilt with this project. The remaining 11 will follow as two more projects. Based on 90 SF/PN these buildings are presently utilized at 141 spaces each (total 705). After rebuild, barracks capacity will be reduced to 112 spaces each (total 560).

IMPACT IF NOT PROVIDED: If this project is not provided, outdated, inefficient electrical, plumbing, heating, and air-conditioning systems will continue to deteriorate. As a result, current routine maintenance will not meet the heavy demands and major system failures will occur. Man hours expended for backlog maintenance and repair will continue to increase at a rapid pace. Ongoing quality of life program goals for enlisted soldiers cannot be met without this badly-needed barracks rebuild project. Also, shortfalls of company operations and supply requirements will continue to be met with diverted barracks space, resulting in inefficient administrative and storage capabilities.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing Rebuild to New Construction and the Status Quo. The Status Quo was determined inadequate to meet the requirements of this project. Life cycle costs for

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Hood, Texas

4. PROJECT TITLE Barracks Modernization	5. PROJECT NUMBER 22610

11. REQUIREMENT: (Continued)

ADDITIONAL: (Continued)

both the Rebuild and New Construction alternatives were compared on a net present value basis, as calculated at a ten percent discount rate. Rebuild ($15,189 K) is recommended as more cost effective than New Construction ($20,823 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Dec 89

(b) Percent Complete As Of 01 January 90 (BDGT YR) 35

(c) Percent Complete As Of 01 October 90 (PROG YR) 95

(d) Design Complete Date .... Nov 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 8.9

(b) All Other Design Costs 750

(c) Total Cost 758

(d) Contract 0

(e) In-house 758

(4) Construction Start .... Feb 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DD FORM 1 DEC 76 1391C PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Hood, Texas	4. PROJECT TITLE Replace Vehicular Bridges

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 851	7. PROJECT NUMBER 32014	8. PROJECT COST ($000) Autz 469 Approp 469

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				402
Bridge 1 (Owl Creek)	SY	316	446.10	(141)
Bridge 2	SY	273	446.10	(122)
Bridge 3	SY	138	446.10	(62)
Detour & Demolition	LS	-	-	(77)
Subtotal				402
Contingency (10.00%)				40
Total Contract Cost				442
Supervision, Inspection & Overhead (6.00%)				27
Total Request				469
Total Request (Rounded)				469
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct three replacement bridges over Owl Creek and two small tributaries so that loaded Heavy Equipment Transporters (HET) can pass over the bridges. Demolish Owl Creek Bridge (182 SY), Tributary Bridge 2 (140 SY), and Tributary Bridge 3 (120 SY).

11. REQUIREMENT: 727 SY ADEQUATE: None SUBSTANDARD: 442 SY

PROJECT: Construct three two-lane bridges at existing bridge sites. (Current Mission)

REQUIREMENT: This project is required to replace bridges at two small tributaries that are not structurally sound to support the weight of heavy equipment.

CURRENT SITUATION: The HETs that carry tracked vehicles to and from the ranges must be unloaded 1.7 miles from Crittenberger Range. The bridges over Owl Creek and two small tributaries are not structurally sound to safely support the weight of a loaded HET. The HET must be unloaded and the tracked vehicles drive the remainder under their own power, fording the three creeks. No other facilities exist to satisfy this requirement.

IMPACT IF NOT PROVIDED: If this project is not provided, the units will not be able to preposition tracks at Crittenberger Range using HETs. The more expensive method of unloading tracks and road march 1.7 miles to the range

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Hood, Texas		
4. PROJECT TITLE Replace Vehicular Bridges		5. PROJECT NUMBER 32014

11. REQUIREMENT: (Continued)
IMPACT IF NOT PROVIDED: (Continued)
will continue.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is considered for Productivity Improvement Funding (PIF) with an amortization period of 5.23 months. The benefits and cost savings associated with bridge replacement were taken directly from a 1987 US Department of Transportation study titled: "Analysis of Alternatives Means of Transporting Heavy Tracked Vehicles at Fort Hood, Texas". This report identifies the cost associated with vehicle operation per mile. Manpower savings are built into the actual transportation and maintenance costs.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:
(a) Design Start Date .... Apr 90
(b) Percent Complete As Of 01 January 90 (BDGT YR) 95
(c) Percent Complete As Of 01 October 90 (PROG YR) 100
(d) Design Complete Date .... Jan 91

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used NA

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 10
(b) All Other Design Costs 32
(c) Total Cost 42
(d) Contract 27
(e) In-house 15

(4) Construction Start .... Oct 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sam Houston Texas	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .88

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	1603	3150	3323	1082	4942	42	181	168	4998	19,489
B. END FY 95	1564	2870	4261	1047	4783	44	181	168	4996	19,914

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE	3,159 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	163,401
C. AUTHORIZATION NOT YET IN INVENTORY	26,398
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	33,700
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	6,820
F. PLANNED IN NEXT THREE YEARS	67,261
G. REMAINING DEFICIENCY	555,122
H. GRAND TOTAL	852,702

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
740	02526	Physical Fitness Training Center	7,100	11/86	07/90
310	11417	Medical Research Laboratory	13,400	01/87	12/90
214	12204	Consolidated Maintenance Facility	13,200	06/89	03/90
		SUBTOTAL PROJECTS OVER $1M	33,700		
		TOTAL	33,700		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92)		
442	Arms Storage Facility	1,150
179	Medical Systems Equipment Training Complex	3,550
842	Water Distribution System	1,250
	SUBTOTAL PROJECTS OVER $1M	5,950
800	Insulate Building	870
	SUBTOTAL PROJECTS $1M & LESS	870
	TOTAL	6,820
B. PLANNED NEXT THREE PROGRAM YEARS		
141	Automated Data Processing Facility	11,200
	SUBTOTAL PROJECTS OVER $1M	11,200
	TOTAL	11,200

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Sam Houston Texas

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10. MISSION OR MAJOR FUNCTIONS:

The mission of HQ, Fort Sam Houston, is: Command and control Fort Sam Houston, its' sub-installations and assigned or attached FORSCOM units or activities; provide support to activities within its' geographical support area. Major activities on Fort Sam Houston include: HQ, Fifth U.S. Army; HQ, Health Services Command; Academy of Health Sciences, Brooke Army Medical Center, Joint Military Medical Command; HQ, 5th Recruiting Brigade; HQ, San Antonio Real Property Maintenance Activity, USAF; San Antonio Contracting Center, USAF; San Antonio Hydrographic/Topographic Center, DMA; HQ, Inter American Geodetic Survey, DMA. The Camp Bullis sub-installation, in addition to its' function of a reserve component training site, serves as a range and maneuver training area for active component activities such as: Academy of Health Sciences, Fort Sam Houston; 3287th Technical Squadron, Lackland AFB; and numerous units from Fort Hood.

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11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Sam Houston, Texas	4. PROJECT TITLE Physical Fitness Training Center

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 740	7. PROJECT NUMBER 2526	8. PROJECT COST ($000) Auth 7,100 Approp 7,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,892
Physical Fitness Center	SF	55,467	75.34	(4,179)
Natatorium	SF	12,433	114.78	(1,427)
Solar	LS	-	-	(119)
Special Drilled Pier Foundation	LF	4,240	36.08	(153)
Information Systems	LS	-	-	(14)
Supporting Facilities				447
Electric Service	LS	-	-	(39)
Water, Sewer & Gas	LS	-	-	(32)
Paving, Walks, Curbs & Gutters	LS	-	-	(140)
Storm Drainage	LS	-	-	(15)
Site Improvement (17) Demolition (138)	LS	-	-	(155)
Information Systems	LS	-	-	(66)
Subtotal				6,339
Contingency (5.00%)				317
Total Contract Cost				6,656
Supervision, Inspection & Overhead (6.00%)				399
Total Request				7,055
Total Request (Rounded)				7,100
Installed Equipment - Other Appropriations				(15)

10. Description of Proposed Construction Construct a centralized physical fitness center to include a natatorium, gymnasium, and other supporting areas. Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, paving, walks, curbs and gutters, storm drainage, and site improvements. Heating and air conditioning (60 tons) will be provided by a self-contained system. Access for the handicapped will be provided. Remove existing foundation and pavement (10,380 SY). Demolish three buildings (31,958 SF) at no cost to the Government. Mechanical ventilation: 148,000 CFM.

11. REQUIREMENT: 83,000 SF ADEQUATE: None SUBSTANDARD: 58,646 SF

PROJECT: Construct a physical fitness center. (Current Mission)

REQUIREMENT: This project is required to replace a substandard field house. The facility will support the command training program and command water safety program for all military personnel assigned or attached to the installation. The long range projected active duty military strength is 12,441.

CURRENT SITUATION: A building built in 1941 of wood frame construction is being used as the installation's physical fitness center. The facility is in constant need of costly repairs and requires extensive remodeling to satisfy

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Sam Houston, Texas

4.PROJECT TITLE Physical Fitness Training Center	5.PROJECT NUMBER 2526

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

essential training needs. Roof leaks have caused the floor to buckle; lighting and ventilation are inadequate; shower and locker areas are congested and unsanitary and do not provide a shower or locker area for the female soldiers; weight machines are always crowded; exercise areas take up a portion of the gymnasium floor, and the present facility cannot handle the number of military personnel desiring to use it on a daily basis. There are two other gymnasiums located on the installation. Both buildings contain 13,675 SF each and were constructed in 1945. One facility is located in the brigade billeting area and is used to its full capacity by approximately 5,000 enlisted personnel. The other facility, located between an enlisted billeting area and a family housing area, is heavily used. Both gymnasiums are small in size and provide a limited amount and type of gymnasium equipment due to lack of space. Fort Sam Houston does not have an on-post swimming facility available for unit level water survival programs on a year round basis. There are 200 active personnel processed daily in water survival training during the summer months.

IMPACT IF NOT PROVIDED: If this project is not provided, the installation will continue to use the congested and antiquated facility that constantly requires costly maintenance and repair. The command training and water safety program will greatly suffer due to lack of adequate facilities for training exercise and physical interaction. Individual testing, conditioning, and instruction in connection with full implementation of the Army's physical fitness program cannot be accomplished. Drownproofing and water safety training will continue to be adversely affected, due to the lack of an indoor facility.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Alteration/Addition and Lease. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($8,147 K) is recommended, as more cost effective than Alteration/Addition ($9,877 K) and Lease ($11,647 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Nov 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)	95
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jul 90

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sam Houston, Texas		
4. PROJECT TITLE Physical Fitness Training Center		5. PROJECT NUMBER 2526

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	318
(b) All Other Design Costs	104
(c) Total Cost	422
(d) Contract	122
(e) In-house	300

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Physical Fit Equip	OPA	91	15
		TOTAL	15

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Sam Houston, Texas	4.PROJECT TITLE Medical Research Laboratory

5.PROGRAM ELEMENT 87796A	6.CATEGORY CODE 310	7.PROJECT NUMBER 11417	8.PROJECT COST ($000) Auth 13,400 Approp 13,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				11,719
Medical Research Laboratory	SF	93,079	121.40	(11,300)
Drilled Piers	LF	2,976	55.11	(164)
Information Systems	LS	-	-	(255)
Supporting Facilities				243
Electric Service	LS	-	-	(145)
Water, Sewer & Gas	LS	-	-	(7)
Paving, Walks, Curbs & Gutters	LS	-	-	(4)
Storm Drainage	LS	-	-	(7)
Site Improvement (6) Demolition (24)	LS	-	-	(30)
Information Systems	LS	-	-	(50)
Subtotal				11,962
Contingency (5.00%)				598
Total Contract Cost				12,560
Supervision, Inspection & Overhead (6.00%)				754
Total Request				13,314
Total Request (Rounded)				13,400
Installed Equipment - Other Appropriations				(2,340)

10.Description of Proposed Construction Construct a medical research laboratory building to include functional space for biochemistry, microbiology, pathology, surgical study, animal facilities, bioengineering, and administrative support. A mat/raft type foundation will be provided. Supporting facilities include utilities, electric service, exterior lighting, information systems, fire protection and alarm systems, parking, roads, walks, curbs and gutters, storm drainage, drilled piers, and site improvements. Access for the handicapped will be provided. Heating will be provided by a gas-fired boiler. Air conditioning (250 tons) will be provided by a self-contained systems. Demolish three buildings (6,847 SF).

11. REQUIREMENT: 93,079 SF ADEQUATE: 7,500 SF SUBSTANDARD: 29,696 SF

PROJECT: Construct a medical research laboratory for the US Army Institute of Surgical Research (USAISR). (Current Mission)

REQUIREMENT: This project is required to provide adequate facilities for the conduct of medical research in the fields of burn injury, surgical physiology, and surgical infection. It is required to provide laboratories for direct clinical support and permit access of the surgical investigatative staff to the laboratory by means of locating the facility contiguous to the inpatient facility and provide adequate ADP telecommunication links with the

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Sam Houston, Texas		
4.PROJECT TITLE Medical Research Laboratory		5.PROJECT NUMBER 11417

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) ward and clinical research areas therein. The facility is required to accommodate present (and future) technologically advanced scientific and research equipment, and laboratories that meet research needs and standards for accreditation established by the College of American Pathologists. The project will also provide the present facilities specifically in the areas of employee accommodations, medical library, training classroom, offices and environmentally controlled storage. This project is conjunctively funded with FY 91 Defense Medical Military Construction Project Number 28819. The Clinical Investigation Facility portion of the Brooke Hospital Replacement project is collocated with this project which will not be complete and usable without conjunctive funding.

CURRENT SITUATION: The present laboratories and administrative support activities are currently housed in inadequate permanent and temporary buildings located in two different locations and separated from the clinical research area (wards) by approximately one and one-half miles. Six of the eight buildings in use were not designed nor intended for research, laboratory and administrative support use and continued modification over the years to keep them abreast of modern scientific and research standards has not been fully successful. The buildings are temporary structures that were built in 1934 and 1941. One building has been declared structurally unsound. Present facilities do not fully meet laboratory and animal research accreditation standards, have inadequate administrative and storage space, do not have sufficient support accommodations for employees and do not have adequate environmental control systems for the research studies and for the instruments and equipment currently in use. Accreditation by the College of American Pathologists has been granted but with facility deficiencies noted that can not be adequately corrected in the present structures. Accreditation has not been granted by American Association for Accreditation of Laboratory Animal Care (AAALAC) due to facility deficiencies.

IMPACT IF NOT PROVIDED: If this project is not provided, the Institute will be severely restricted in the futherance of burn research and clinical endeavors. The distance of the present clinical laboratories that support the staff, the burn wards from the hospital and the existing facility deficiencies have the potential for adversely affecting patient care if allowed to continue. The situation will continue to deteriorate as advancements in techonology and procedures occur that can not be fully implemented by the research staff due to the inadequacies of the present facilities.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270 1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Sam Houston, Texas

4.PROJECT TITLE Medical Research Laboratory	5.PROJECT NUMBER 11417

11. REQUIREMENT: (Continued)
ADDITIONAL: (Continued)
Construction to Lease Off- Post and Use of Facilities at a Nearby Installation. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($20,969 K) is recommended as more cost effective than Lease Off-Post ($36,109 K) and Use of Facilities at a Nearby Installation ($24,856 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jan 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)	65
(c) Percent Complete As Of 01 October 90 (PROG YR)	90
(d) Design Complete Date	Dec 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	750
(b) All Other Design Costs	258
(c) Total Cost	1,008
(d) Contract	750
(e) In-house	258

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Fixed Furnishings	RDTE	91	840
Misc Lab Equipment	RDTE	91	1500
		TOTAL	2,340

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Sam Houston, Texas	4. PROJECT TITLE Consolidated Maintenance Facility

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 214	7. PROJECT NUMBER 12204	8. PROJECT COST ($000) Auth 13,200 Approp 13,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				10,501
Consolidated GS Maint Facility	SF	119,995	83.00	(9,960)
Organizational Vehicle Parking	SY	19,725	23.27	(459)
Information Systems	LS	-	-	(82)
Supporting Facilities				1,410
Electric Service	LS	-	-	(137)
Water, Sewer & Gas	LS	-	-	(108)
Paving, Walks, Curbs & Gutters	LS	-	-	(197)
Storm Drainage	LS	-	-	(53)
Site Improvement (275) Demolition (378)	LS	-	-	(653)
Information Systems	LS	-	-	(262)
Subtotal				11,911
Contingency (5.00%)				596
Total Contract Cost				12,507
Supervision, Inspection & Overhead (6.00%)				750
Total Request				13,257
Total Request (Rounded)				13,200
Installed Equipment - Other Appropriations				(288)

10. Description of Proposed Construction Construct a consolidated general support maintenance facility. Supporting facilities include utilities, electric service, exterior lighting, information systems, storm drainage, fire protection and alarm systems including special requirements for weapons, security storage, flammable and combustible materials storage, paving, fencing, and site improvements. Heating and air conditioning (75 tons) will be provided by self-contained systems. Demolish 180,000 SY of foundation.

11. REQUIREMENT: 119,995 SF ADEQUATE: None SUBSTANDARD: 98,592 SF

PROJECT: Construct a consolidated general support level maintenance facility. (Current Mission)

REQUIREMENT: This project is required to replace failing and widely separated support maintenance shops. These shops are the support level maintenance activity for 5,174 items of tactical wheeled, tactical tracked, and tactical heavy equipment and 66,774 items of other types of material for tactical units.

CURRENT SITUATION: The existing facilities, constructed during the period 1920-1942, were designed to support the equipment utilized during World War II. They are not adequate to accommodate tactical equipment, up to 22 1/2 ton trucks, being issued under the Force Modernization program. Maintenance is

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Sam Houston, Texas		
4.PROJECT TITLE Consolidated Maintenance Facility	5.PROJECT NUMBER 12204	

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
accomplished in 12 buildings that are temporary construction, requiring high levels of maintenance, and fail to conform to current standards for Occupational Safety and Health Administration (OSHA). The buildings are widely dispersed over a two and one-half mile radius. This causes numerous courier runs to transfer tools, parts, documentation, and equipment. The buildings have ceiling height and floor load capacity limit the installation of labor saving devices and the type of building modifications that can be made. The current facilities are not in full compliance with established criteria for collection and storage of petroleum waste and marginally meet current environmental health and safety standards.
IMPACT IF NOT PROVIDED: If this project is not provided, the material readiness of supported units will continue to be adversely affected. Excessive manhours will be spent to monitor and control the use of chemicals and disposal of waste products. Maintenance effectiveness of this unit will continue to be impaired and heavier, larger, more complicated equipment associated with the Force Modernization Program will not be properly handled. The equipment will continue to be maintained outside, and, during inclement weather, maintenance on the vehicles will be delayed.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Lease Off-post Facility and Contract Services. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($31,693 K) is recommended, as more cost effective than Lease Off-Post ($50,485 K) and Contract Services ($34,976 K).

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Jun 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	90
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Mar 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Sam Houston, Texas		
4. PROJECT TITLE Consolidated Maintenance Facility		5. PROJECT NUMBER 12204

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(a) Production of Plans and Specifications	578
(b) All Other Design Costs	337
(c) Total Cost	915
(d) Contract	675
(e) In-house	240

(4) Construction Start .... Dec 90
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	114
Shop Equipment	OPA	91	174
		TOTAL	288

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Utah		Dugway Proving Ground (AMC)			297
	17535	Simulant Mixing Facility	450	450	299
		SUBTOTAL Dugway Proving Ground PART I	$ 450	450	
		Tooele Army Depot (AMC)			303
	32497	Ammunition Demilitarization Support Fac	11,800	11,800	305
		SUBTOTAL Tooele Army Depot PART I	$ 11,800	11,800	
		* TOTAL MCA FOR Utah	$ 12,250	12,250	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Dugway Proving Ground Utah	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX 1.15

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	62	260	908	0	0	0	0	6	49	1,285
B. END FY 95	62	260	871	0	0	0	0	6	49	1,248

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	802,724 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..........	59,997
C. AUTHORIZATION NOT YET IN INVENTORY..........	35,426
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..........	450
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........	20,800
F. PLANNED IN NEXT THREE YEARS..........	13,150
G. REMAINING DEFICIENCY..........	44,640
H. GRAND TOTAL..........	174,463

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
316	17535	Simulant Mixing Facility	450	05/89	09/90
		SUBTOTAL PROJECTS $1M & LESS	450		
		TOTAL	450		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92):		
740	Physical Fitness Training Center	2,900
724	Modernize Unaccompanied Officer Housing	3,700
310	Life Sciences Laboratory Facility	14,200
	SUBTOTAL PROJECTS OVER $1M	20,800
	TOTAL	20,800
B. PLANNED NEXT THREE PROGRAM YEARS:		
131	ADP/Communications Facility	3,850
442	Warehouse Complex	3,800
	SUBTOTAL PROJECTS OVER $1M	7,650
	TOTAL	7,650

10. MISSION OR MAJOR FUNCTIONS:

a. Test and Evaluation:

1. Plan, conduct, evaluate and report the results of developmental type tests, following integrated testing cycle policies, to assess the military value of chemical warfare and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Dugway Proving Ground Utah

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

biological defense systems (CW/BD), and flame incendiary and smoke obscurant systems.

2. Provide advice, guidance and support to material developers, material producers, other armed forces components, and to private industry.

3. Conduct additional testing and evaluation as directed by the Commanding General, TECOM.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Dugway Proving Ground, Utah	4. PROJECT TITLE Simulant Mixing Facility

5. PROGRAM ELEMENT 72896A	6. CATEGORY CODE 316	7. PROJECT NUMBER 17535	8. PROJECT COST ($000) Auth 450 Approp 450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				338
Chemical Mixing Building	SF	2,589	129.39	(335)
Information Systems	LS	-	-	(3)
Supporting Facilities				65
Electric Service	LS	-	-	(23)
Water, Sewer & Gas	LS	-	-	(9)
Paving, Walks, Curbs & Gutters	LS	-	-	(12)
Site Improvement	LS	-	-	(17)
Information Systems	LS	-	-	(4)
Subtotal				403
Contingency (5.00%)				20
Total Contract Cost				423
Supervision, Inspection & Overhead (6.00%)				25
Total Request				448
Total Request (Rounded)				450
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a building for mixing and storage of chemical simulants used in laboratory and field testing. Special features include a loading dock served by a rail mounted electric hoist, provisions for total containment of spills, floors and walls treated to ensure chemical resistance, emergency showers, eye-wash facilities, and other life-safety support items. Supporting facilities include utilities, electric service, information systems, parking (to include heavy vehicle parking), walks, curbs and gutters, paving, access control and fencing, and site improvements. Heating will be provided by a self-contained oil-fired boiler. Mechanical ventilation with evaporative cooling: 4,000 CFM. Demolish one structure (above ground only) (693 SF).

11. REQUIREMENT: 2,570 SF ADEQUATE: None SUBSTANDARD: 2,717 SF

PROJECT: Construct a chemical mixing facility. (Current Mission)

REQUIREMENT: This project is required to insure the proper environmental control and mixing of chemical simulants necessary for valid testing results in laboratory and field testing and to provide safe and environmentally controlled work conditions.

CURRENT SITUATION: Chemical simulant mixing is presently done in an open shed without protection from the elements or in other unsuitable buildings.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Dugway Proving Ground, Utah		
4. PROJECT TITLE Simulant Mixing Facility		5. PROJECT NUMBER 17535

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
These structures do not provide suitable utilities, safety devices or safeguards for spill control, containment or collection of simulant materials. Storage of simulants is in a separate open storage lot. The excessive handling required by storing the simulants this way creates the potential for accidental spills. There are also no provisions available for the collection of residual chemicals during container rinsing operations. Minimum safety requirements are met only by using bulky, uncomfortable, individual personal safety suits and equipment which causes great fatigue during mixing operations.
IMPACT IF NOT PROVIDED: If this project is not provided, the mixing of chemical simulants will continue to be in non-compliance with current environmental regulations pertaining to spill containment. Minimum safety requirements will continue to be met only by using individual personal safety equipment, subjecting personnel to unnecessary fatigue during mixing operations. Simulants will continue to be mixed in various buildings that do not provide proper environmental conditions for controlling temperature and humidity during mixing and storage. Safeguards for spill control, containment or collection will remain unavailable.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. Department of Defense Explosives Safety Board approval will be required.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... May 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 27
(b) All Other Design Costs 104
(c) Total Cost 131
(d) Contract 46

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Dugway Proving Ground, Utah		
4. PROJECT TITLE Simulant Mixing Facility		5. PROJECT NUMBER 17535

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 85

(4) Construction Start .... May 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Tooele Army Depot Utah	4. COMMAND US Army Materiel Command	5. AREA CONSTRUCTION COST INDEX 1.06

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	43	169	3551	0	0	0	5	19	62	3,849
B. END FY 95	56	307	3814	0	0	0	5	19	62	4,263

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 24,735 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89	0
C. AUTHORIZATION NOT YET IN INVENTORY	95,185
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	11,800
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	0
F. PLANNED IN NEXT THREE YEARS	0
G. REMAINING DEFICIENCY	94,310
H. GRAND TOTAL	201,295

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
216	32497	Ammunition Demilitarization Support Facility	11,800	01/90	09/90
		SUBTOTAL PROJECTS OVER $1M	11,800		
		TOTAL	11,800		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)

A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE

B. PLANNED NEXT THREE PROGRAM YEARS : NONE

10. MISSION OR MAJOR FUNCTIONS:

The principal mission of Tooele Army Depot is to operate a supply and maintenance depot providing for the receipt, storage, issue, maintenance, and disposal of assigned commodities. Commodities include automotive, construction, rail and general equipment, missile systems, commodity groups, conventional and chemical munitions, and general supplies. Design, manufacture and testing of ammunition peculiar equipment also performed. Installation support to attached organizations and Depot Activities provided. Demilitarization of chemical agents carried out in a prototype plant.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Tooele Army Depot, Utah	4.PROJECT TITLE Ammunition Demilitarization Support Fac

5.PROGRAM ELEMENT 72007A	6.CATEGORY CODE 216	7.PROJECT NUMBER 32497	8.PROJECT COST ($000) Auth 11,800 Approp 11,800

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				10,223
Laundry Facility	SF	10,800	91.43	(987)
Change House Addition	SF	5,400	108.93	(588)
Change House Renovation	SF	4,500	29.22	(131)
Maint and Reconfiguration Fac	SF	28,290	49.54	(1,401)
Reconfiguration Fac Addition	SF	2,920	145.16	(424)
See Cost Estimates (Continued)				(6,692)
Supporting Facilities				343
Water, Sewer & Gas	LS	–	–	(258)
Paving, Walks, Curbs & Gutters	LS	–	–	(9)
Site Improvement (39) Demolition (21)	LS	–	–	(60)
Security Fence Sallyport	LS	–	–	(16)
Subtotal				10,566
Contingency (5.00%)				528
Total Contract Cost				11,094
Supervision, Inspection & Overhead (6.00%)				666
Total Request				11,760
Total Request (Rounded)				11,800
Installed Equipment - Other Appropriations				(160)

10.Description of Proposed Construction Construct a toxicological agent protective (TAP) clothing laundry; renovate and construct an addition to an existing toxic chemical workers change house; renovate and construct an addition to an existing toxic chemical munitions maintenance facility; upgrade existing depot haul roads, parking areas, and storm drainage; construct a high pressure natural gas transmission and distribution system; and purchase the Utah Power and Light Company 46KV electric transmission line and Silverado Substation. Work includes latrine, locker and change rooms, lunch and break areas, and mechanical spaces. Maintenance facility will include areas for decontamination, munitions, and administration. Maintenance facility includes overhead bridge cranes and hoists, blast walls, conductive flooring and earth ground system, humidity and environmental control, vapor and spill containment and a respiratory air system, monitoring and filter system, rapid-response deluge, automatic generator with uninterruptable power supply, and a chemical-resistant coating paint booth. Supporting facilities include utilities, parking, security fencing and lighting, fire protection and alarm systems, and site improvements. Heating will be provided by individual gas-fired self-contained units. Air conditioning (20 tons) will be provided by independent units. Demolish one building (5,948 SF).

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Tooele Army Depot, Utah		
4. PROJECT TITLE Ammunition Demilitarization Support Fac		5. PROJECT NUMBER 32497

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Electrical (46KV power)	LS	-	-	500
6" Natural Gas Line	LF	22,990	28.00	644
2" Natural Gas Line	LF	12,080	12.40	150
Gasline Regulators	EA	3	20,268	61
Upgrade Area 10 Roads	SY	248,445	10.61	2,636
Upgrade Concrete Aprons	EA	140	5,012	702
Widen Area 10 Roads	LF	63,770	8.71	555
Upgrade Access Roads	SY	73,580	10.13	745
Upgrade Parking Areas	SY	10,300	15.10	156
Upgrade Drainage in Area 10	SY	258,600	2.10	543
			Total	6,692

11. REQUIREMENT: 52,710 SF ADEQUATE: 32,790 SF SUBSTANDARD: 5,768 SF

PROJECT: Construct and modify ammunition maintenance and support facilities, upgrade depot haul roads and utilities. (New Mission)

REQUIREMENT: This project is required to provide and acquire adequate utilities, heavy-duty roads, and special purpose facilities (TAP laundry, change house, and ammunition maintenance) with capacities capable of sustaining continuous chemical stockpile disposal operations. The maintenance facility must reconfigure (e.g., separate explosive propellant charges from toxic chemical projectiles) munitions items for demilitarization processing.

CURRENT SITUATION: A Chemical Stockpile Demilitarization Complex was authorized and funded in FY 89 ($49.6 million) for the demilitarization (demil) and destruction of unitary chemical munitions and bulk toxic agent. Completion is anticipated by February 1992. Existing chemical operations support facilities are not adequate to meet or sustain the requirements of the Complex. Existing laundry facilities for protective clothing can support only half the personnel (250 versus 519) for demil, and the existing laundry is now experiencing structural failure. The change house can support only 40 personnel per shift against a requirement of 170. The current maintenance facility lacks safety provisions and must be expanded to accommodate special containers and transporters associated with the stockpile demil program. Roads between the storage facilities and the Complex must be upgraded to withstand continuous operation of heavy transporters (85,000 pounds) under all-weather conditions. The existing 46KV electric distribution line and Silverado electric substation meet Complex electric requirements only at a costly, elevated rate structure.

IMPACT IF NOT PROVIDED: If this project is not provided, scheduled rates for demilitarization of unitary chemical munitions stocks and bulk toxic agent stored at this location cannot be supported or sustained, and Congressional mandates for the disposal of the current chemical munitions stockpile by 1997 cannot be met.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Tooele Army Depot, Utah

4.PROJECT TITLE Ammunition Demilitarization Support Fac	5.PROJECT NUMBER 32497

11. REQUIREMENT: (Continued)
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jan 90
(b) Percent Complete As Of 01 January 90 (BDGT YR) 0
(c) Percent Complete As Of 01 October 90 (PROG YR) 100
(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 700
(b) All Other Design Costs 244
(c) Total Cost 944
(d) Contract 708
(e) In-house 236

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Laundry/Changehouse Furnishings	OPA	91	25
Laundry Equipment	OPA	91	35
Chemical Filters	OPA	91	100
		TOTAL	160

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Virginia		Fort Belvoir (MDW)			311
	17480	Fixed Wing Runway	1,400	1,400	313
	18122	Fire Station	1,100	1,100	316
	31321	Access Road - Fort Belvoir	3,000	3,000	319
		SUBTOTAL Fort Belvoir PART I	$ 5,500	5,500	
		Fort Eustis (TRADOC)			321
	15981	Harbor Control Facility	530	530	323
		SUBTOTAL Fort Eustis PART I	$ 530	530	
		Fort A P Hill (FORSCOM)			327
	9912	Fuel Storage Facility	3,200	3,200	329
		SUBTOTAL Fort A P Hill PART I	$ 3,200	3,200	
		Fort Lee (TRADOC)			333
	32980	Food Service Training Facility Addition	520	520	335
		SUBTOTAL Fort Lee PART I	$ 520	520	
		Fort Myer (MDW)			339
	25248	Child Development Center	2,150	2,150	341
		SUBTOTAL Fort Myer PART I	$ 2,150	2,150	
		Fort Story (TRADOC)			345
	3256	Emergency Services Building	1,600	1,600	347
		SUBTOTAL Fort Story PART I	$ 1,600	1,600	
		* TOTAL MCA FOR Virginia	$ 13,500	13,500	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Port Belvoir Virginia	4. COMMAND US Army Military District of Washington	5. AREA CONSTRUCTION COST INDEX 1.05

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	728	1860	4907	805	1169	131	557	649	1102	11,908
B. END FY 95	995	1975	9977	220	975	128	575	650	1105	16,600

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	8,656 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....	253,927
C. AUTHORIZATION NOT YET IN INVENTORY....	37,964
D. AUTHORIZATION REQUESTED IN THIS PROGRAM....	5,500
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM....	9,250
F. PLANNED IN NEXT THREE YEARS....	233,523
G. REMAINING DEFICIENCY....	144,874
H. GRAND TOTAL....	685,038

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
111	17480	Fixed Wing Runway	1,400	05/89	09/90
730	18122	Fire Station	1,100	05/89	09/90
851	31321	Access Road - Fort Belvoir	3,000	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M	5,500		
		TOTAL	5,500		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
722	Dining Facility	3,000
851	Road Improvements	3,350
851	Road Improvements	2,900
	SUBTOTAL PROJECTS OVER $1M	9,250
	TOTAL	9,250
B. PLANNED NEXT THREE PROGRAM YEARS :		
141	Consolidate ADP Facility	43,000
610	Computers Systems Design Facility	41,000
	SUBTOTAL PROJECTS OVER $1M	84,000
	TOTAL	84,000

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Belvoir Virginia

10. MISSION OR MAJOR FUNCTIONS:

To command and support all troop units located at the US Army Engineer Center and Fort Belvior except those expressly assigned by competent authority to another command or agency. A principal mission of the USAECFB is to provide administrative, operational, and logistical support to the United States Army Engineer School (USAESO). The School is responsible for providing a progressive program of both resident and non-resident training and education in the functions, tactics and techniques of military engineering. In addition to instructing officers, the School is responsible for the Advanced Individual Training of soldiers in the maintenance of power generation equipment. The School also trains members of other branches of the United States Armed Forces and students from foreign nations. USAES develops engineer doctrines, organization and material concepts, prepares references and training material for Army-wide engineer training, publishes The Engineer magazine and maintains the US Army Engineer Library.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Belvoir, Virginia	4. PROJECT TITLE Fixed Wing Runway

5. PROGRAM ELEMENT 91296A	6. CATEGORY CODE 111	7. PROJECT NUMBER 17480	8. PROJECT COST ($000) Auth 1,400 Approp 1,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				747
Runway Extension	SY	12,640	22.86	(289)
Taxiway Extension	SY	6,700	22.84	(153)
Paved Runway Overrun (NW)	SY	6,700	22.84	(153)
Compacted Runway Overrun (SE)	SY	2,000	3.50	(7)
Runway Threshold Lighting	EA	30	1,333	(40)
See Cost Estimates (Continued)				(105)
Supporting Facilities				513
Electric Service	LS	–	–	(211)
Paving, Walks, Curbs & Gutters	LS	–	–	(5)
Storm Drainage	LS	–	–	(138)
Site Improvement	LS	–	–	(159)
Subtotal				1,260
Contingency (5.00%)				63
Total Contract Cost				1,323
Supervision, Inspection & Overhead (6.00%)				79
Total Request				1,402
Total Request (Rounded)				1,400
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct an addition to a permanent fixed-wing runway and taxiway with required safety features such as runway overrun areas, Medium-Intensity Approach Lighting System (MALS), runway edge and threshold lights, taxiway lighting, and pavement marking. Project includes extension of the electrical distribution system and construction of a service road to the new lights, tree clearing and topping, and replacement plantings. Six hundred feet of paving (one overrun area) is in a floodplain. Topography of the ground will not be affected and no impact on flood character is expected.

11. REQUIREMENT: 86,883 SY ADEQUATE: 60,843 SY SUBSTANDARD: None

PROJECT: Extend the fixed-wing aircraft runway and taxiway. (Current Mission)

REQUIREMENT: This project is required to bring Davison US Army Airfield (DUSAA) into compliance with the minimum design standards for fixed-wing aircraft operations. The term used to describe the minimum safe runway takeoff length is Balanced Field Length (BFL). This runway length allows an aircraft to accelerate to a specified airspeed for takeoff and then safely stop on the remaining runway if a malfunction causes a takeoff abort at that specified airspeed. The minimum design runway takeoff length is 5,000 feet, adjusted for annual temperature and pressure altitude fluctuations. For

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Belvoir, Virginia

4.PROJECT TITLE Fixed Wing Runway	5.PROJECT NUMBER 17480

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Runway Lighting Addition	EA	10	700.00	7
Taxiway Lighting Addition	EA	11	636.36	7
Medium-Int Approach Lights (MALS	EA	81	666.67	54
Tower For MALSF	EA	12	3,083	37
			Total	105

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
DUSAA, the minimum BFL is 5,580 feet. This runway extension will eliminate the need for a safety waiver.

CURRENT SITUATION: Of the 45 airfields in the continental United States (CONUS) designated as Army Airfields, DUSAA is the only active Army permanent facility (which allows instrument flying on a 24-hour daily basis) which does not comply with the current runway length standards. For the C-12 aircraft, the Army's primary small fixed-wing aircraft, the BFL is 5,580 feet. The runway length at DUSAA is only 4,010 feet, 28 percent below the minimum requirements for the C-12. Because of this limited runway length a safety waiver is required, and aircraft can operate safely only by placing restrictions on their payloads for fuel, passengers and cargo. These payload restrictions vary throughout the year due to changes in temperature and atmospheric pressure. For approximately one third of the year, these payload restrictions are significant. There are approximately 30,000 fixed-wing aircraft take offs and landings at DUSAA annually. Reduction of the passenger density and fuel load results in increased operating costs for the Army. In addition, movements by the Operational Support Airlift (OSA) of the senior leadership of the Army and Department of Defense at DUSAA exceed those of any other CONUS facility by two to one.

IMPACT IF NOT PROVIDED: If this project is not provided, DUSAA will continue to conduct its daily operations with reduced payloads, and for approximately one third of the year with drastically reduced payloads due to temperatures and pressure conditions. Mission costs will increase accordingly. One recently completed study by the Training and Doctrine Command (TRADOC) and one study now underway at the Combined Arms Center at Fort Leavenworth indicate that DUSAA will become the Army's regional air transportation hub for the National Capital Region. Without the additional runway length, DUSAA cannot meet future requirements. The Centralized Army Aviation Support Office (CAASO) plans to schedule Air Force and Navy fixed-wing aircraft (C-12 and equivalent) to accommodate missions at DUSAA. Because both Air Force and Navy regulations require a minimum runway length of 4,500 feet (also adjusted for temperature and pressure altitude) the future of this joint program cannot be assured without the runway extension.

ADDITIONAL: This project has been coordinated with the installation

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Belvoir, Virginia		
4. PROJECT TITLE Fixed Wing Runway		5. PROJECT NUMBER 17480

11. REQUIREMENT: (Continued)
ADDITIONAL: (Continued)
physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... May 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Sep 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes ___ No X
    - (b) Where Design Was Most Recently Used N/A
  - (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
    - (a) Production of Plans and Specifications 60
    - (b) All Other Design Costs 94
    - (c) Total Cost 154
    - (d) Contract 72
    - (e) In-house 82
  - (4) Construction Start .... Apr 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Belvoir, Virginia	4. PROJECT TITLE Fire Station

5. PROGRAM ELEMENT 91296A	6. CATEGORY CODE 730	7. PROJECT NUMBER 18122	8. PROJECT COST ($000) Auth 1,100 Approp 1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				770
Fire Station	SF	8,400	87.00	(731)
Vehicle Ramp	SY	450	40.00	(18)
Apron	SY	375	48.00	(18)
Information Systems	LS	–	–	(3)
Supporting Facilities				239
Electric Service	LS	–	–	(74)
Water, Sewer & Gas	LS	–	–	(12)
Paving, Walks, Curbs & Gutters	LS	–	–	(53)
Storm Drainage	LS	–	–	(1)
Site Improvement (8) Demolition (56)	LS	–	–	(64)
Information Systems	LS	–	–	(35)
Subtotal				1,009
Contingency (5.00%)				50
Total Contract Cost				1,059
Supervision, Inspection & Overhead (6.00%)				64
Total Request				1,123
Total Request (Rounded)				1,100
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design two-company headquarters fire station with mechanical room to accommodate a fire protection section and the installation's fire station headquarters and administration section. Facility includes access ramp and emergency vehicle exit, three drive-through apparatus bays, nine dormitory rooms, training, living, dining, storage and workroom, alarm room and fire chief's suite. Supporting facilities include utilities, information systems, parking and signage, and site improvements. Access for the handicapped will be provided in the administration area. Air conditioning (4.5 tons), heating and hot water will be provided by self-contained units for dormitories only. Demolish five buildings (20,264 SF), an outdoor swimming pool (105 FT x 38 FT), and accompanying pump house (473 SF).

11. REQUIREMENT: 18,295 SF ADEQUATE: 11,475 SF SUBSTANDARD: 3,170 SF

PROJECT: Construct a standard-design two-company headquarters fire station. (Current Mission)

REQUIREMENT: This project is required to provide fire protection services to the rapidly-growing North Post area of Fort Belvoir, to provide a modern command and emergency operations center, and to provide a facility large enough to house modern fire-fighting equipment. Extra equipment and personnel

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Belvoir, Virginia		
4. PROJECT TITLE Fire Station		5. PROJECT NUMBER 18122

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
authorized to Fort Belvoir require that this building be a two-company headquarters station.

CURRENT SITUATION: Fort Belvoir's Fire Prevention and Protection Division and its two fire companies operate out of two separate stations. The South Post station occupies an historic building, and its command center is extremely cramped for space and cannot be expanded. The electrical system cannot support modern computer-based alarm equipment, even if room were available for it. The North Post building, a World War II wood structure, has reached the end of its economic life. Neither building can accommodate an aerial ladder truck, the latest piece of equipment authorized for Fort Belvoir, and neither can be economically expanded to accommodate it. Kitchen and recreational space in both buildings is too small, and no space is available for classrooms or training. (The fire station and fire-fighting assets at Davison Army Airfield are separately justified and not considered in this project.) Fairfax County cannot offer primary service to Fort Belvoir, nor can it station an aerial ladder truck within five-minute response time. A mutual aid agreement between Fairfax County and Fort Belvoir does spell out the secondary assistance each provides the other. Fort Belvoir provides secondary assistance to fires within ten miles when such assistance does not expose the installation to unacceptable risk, and Fairfax County provides secondary assistance to Fort Belvoir when such assistance does not expose Fairfax County to unacceptable risk.

IMPACT IF NOT PROVIDED: If this project is not provided, fire prevention and protection of the entire Post will degenerate. Emergency operations will continue without modern computer and communications support. Deterioration of the World War II building will require higher maintenance costs for the installation, with no guarantee the building will last long enough to repay any patch-up investment. Lack of a bay to handle an authorized aerial ladder truck will continue to force delay in its purchase, leaving the larger new buildings which generated the need for the truck without proper fire protection. Purchase of the aerial ladder truck without a bay to store it may cause equipment damage, dangerous conditions of use in wintertime, or extra attention to prevent those hazards, forcing firefighters to perform extra duties.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Renovate/Addition. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($1,411 K) is recommended, as more cost effective than

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Belvoir, Virginia		
4. PROJECT TITLE Fire Station		5. PROJECT NUMBER 18122

11. REQUIREMENT: (Continued)
ADDITIONAL: (Continued)
Renovate/Addition ($1,793 K). Fairfax County cannot offer primary service to Fort Belvoir, nor can it station an aerial ladder truck within five-minute response time. A mutual aid agreement between Fairfax County and Fort Belvoir does spell out the secondary assistance to fires within ten miles when such assistance does not expose the installation to unacceptable risk, and Fairfax County provides secondary assistance to Fort Belvoir when such assistance does not expose Fairfax County to unacceptable risk.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:
- (a) Design Start Date .... May 89
- (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
- (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
- (d) Design Complete Date .... Sep 90

(2) Basis:
- (a) Standard or Definitive Design - Yes X No ___
- (b) Where Design Was Most Recently Used Initial Use

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
- (a) Production of Plans and Specifications 60
- (b) All Other Design Costs 103
- (c) Total Cost 163
- (d) Contract 117
- (e) In-house 46

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Belvoir, Virginia	4. PROJECT TITLE Access Road - Fort Belvoir

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 851	7. PROJECT NUMBER 31321	8. PROJECT COST ($000) Auth 3,000 Approp 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,000
Upgrade Access Road	LS	-	-	(3000)
Subtotal				3,000
Contingency (.00%)				
Total Contract Cost				3,000
Supervision, Inspection & Overhead (.00%)				
Total Request				3,000
Total Request (Rounded)				3,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Finance the construction of access road improvements necessary to support the increased traffic resulting from development of Fort Belvoir's North Post. Left and right turn lanes, signals or signal upgrades, and the construction of additional lanes required for the new traffic. Funds provided will be transferred to the Federal Highway Administration of the Department of Transportation which is responsible under Title 23 USC 210 for proper execution of the work.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None

REQUIREMENT: These funds are required to provide access roads under authorization contained in Title 23 USC Section 210. The Defense Access Road construction is necessary to support traffic generated by development to be located in an area bounded by Backlick and Telegraph Roads, and Beulah Street, on Fort Belvoir's North Post. The road improvements will be a prerequisite for development, required by Fairfax County. The projects to be constructed will be eligible for Defense Access Road funding. (Current Mission)

IMPACT IF NOT PROVIDED: If this project is not provided, employees of the newly developed area and many of the existing Fort Belvoir employees will not be able to access their facilities without extensive traffic delays and unacceptable traffic related safety hazards. Additionally, without the access

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Belvoir, Virginia		
4. PROJECT TITLE Access Road - Fort Belvoir		5. PROJECT NUMBER 31321

road improvements Fairfax County will not allow development of this portion of Fort Belvoir.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... N/A

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A

(c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A

(d) Design Complete Date .... N/A

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications .... N/A

(b) All Other Design Costs .... ____

(c) Total Cost .... ____

(d) Contract .... N/A

(e) In-house .... N/A

(4) Construction Start .... N/A
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Eustis Virginia	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .93

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	744	5072	2916	491	2367	25	50	37	131	11,833
B. END FY 95	747	4954	3103	490	2330	6	51	37	131	11,849

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	8,229 AC
B. INVENTORY TOTAL AS OF 30 SEP 89	182,847
C. AUTHORIZATION NOT YET IN INVENTORY	9,732
D. AUTHORIZATION REQUESTED IN THIS PROGRAM	530
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM	8,500
F. PLANNED IN NEXT THREE YEARS	63,164
G. REMAINING DEFICIENCY	277,173
H. GRAND TOTAL	541,946

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
161	15981	Harbor Control Facility	530	04/89	06/91
		SUBTOTAL PROJECTS $1M & LESS	530		
		TOTAL	530		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
179	Modified Record Fire Range	1,900
211	Aircraft Maintenance Hangar	6,600
	SUBTOTAL PROJECTS OVER $1M	8,500
	TOTAL	8,500
B. PLANNED NEXT THREE PROGRAM YEARS :		
610	Training Support Center	14,000
721	Barracks	7,400
171	MOS 67 TRAINING FACILITY	6,500
	SUBTOTAL PROJECTS OVER $1M	27,900
	TOTAL	27,900

10. MISSION OR MAJOR FUNCTIONS:

The mission of the US Army Transportation Center is to provide organization and training of all types of aircraft maintenance and transportation units as well as to provide logistical support to the US Army Transportation and Air Logistics School, the US Army Training Support Center. The

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Eustis Virginia

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

7th Transportation Group, the Transportation Engineering Agency and numerous support activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Eustis, Virginia	4. PROJECT TITLE Harbor Control Facility

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 161	7. PROJECT NUMBER 15981	8. PROJECT COST ($000) Auth 530 Approp 530

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				407
Harbor Tower	SF	1,200	188.33	(226)
Gatehouse	LS	–	–	(40)
Fencing with Gates	LS	–	–	(137)
Information Systems	LS	–	–	(4)
Supporting Facilities				70
Electric Service	LS	–	–	(20)
Water, Sewer & Gas	LS	–	–	(20)
Site Improvement	LS	–	–	(7)
Information Systems	LS	–	–	(10)
EMCS Connection	LS	–	–	(13)
Subtotal				477
Contingency (5.00%)				24
Total Contract Cost				501
Supervision, Inspection & Overhead (6.00%)				30
Total Request				531
Total Request (Rounded)				530
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a three-story harbor control tower, a gatehouse, security fencing, and four motorized 36-foot sliding gates. Supporting facilities include utilities, electric service, information systems, storm drainage, walks, curbs and gutters, paving, and site improvements. The building will be connected to the post energy monitoring control system (EMCS). The third floor of the building will be used as a lookout station and will provide a complete view of the port. The two remaining stories of the tower will house port security and operations personnel. The harbor control tower will have communications equipment (i.e., radio and telephone connections) to communicate with the port and monitor vessels. Heating and air conditioning (5 tons) will be provided by self-contained systems.

11. REQUIREMENT: 1,200 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a harbor control facility. (Current Mission)

REQUIREMENT: This project is required to provide security and operational control of marine facilities and vessels within the Third Port complex. With the addition of new and larger vessels, i.e., Logistic Support Vessels (LSV), 2000 Class Landing Craft Utility (LCU) boats, and new large tugs, it is necessary to have adequate port support facilities. These new vessels have

INTENTIONAL
BLANK

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Eustis, Virginia		
4. PROJECT TITLE Harbor Control Facility		5. PROJECT NUMBER 15981

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) expensive, highly technical radar and communications equipment on board. These security facilities are needed to protect this equipment. Further, these large boats require more control within the harbor, which a harbor control tower would provide.

CURRENT SITUATION: Currently, the only security for the port consists of road barriers and a guard at the main entrance. There is no security fencing. The guard shack is in a relocated temporary building with an obstructed view of the traffic entering or leaving the port area. Security at night consists of roving patrols. The Harbor Master's office is in an undersized, one story building with limited views of most areas of the port. More than 40 vessels are berthed at the port and various other equipment, supplies, and materials are processed. With almost unlimited access to the port area, and with the limited surveillance possible from his office, the Harbor Master finds it almost impossible to accomplish his mission.

IMPACT IF NOT PROVIDED: If this project is not provided, the Fort Eustis Third Port will continue to operate without security fencing, and hence without protection. Control of port operations by the Harbor Master will continue to be restricted. The risk to both soldier and equipment will increase as the new boats and equipment are deployed.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Apr 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	75
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jun 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications	27
(b) All Other Design Costs	43
(c) Total Cost	70
(d) Contract	50

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Eustis, Virginia

4. PROJECT TITLE Harbor Control Facility	5. PROJECT NUMBER 15981

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(e) In-house 20

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort A P Hill Virginia	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX .96

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	3	60	192	0	0	0	12	37	32	336
B. END FY 95	3	60	192	0	0	0	12	37	32	336

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	76,055 AC
B. INVENTORY TOTAL AS OF 30 SEP 89.................................... ...	24,703
C. AUTHORIZATION NOT YET IN INVENTORY....................................	557
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	3,200
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	5,700
F. PLANNED IN NEXT THREE YEARS...	110,759
G. REMAINING DEFICIENCY..	203,804
H. GRAND TOTAL...	348,723

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
411	09912	Fuel Storage Facility	3,200	03/84	01/90
		SUBTOTAL PROJECTS OVER $1M	3,200		
		TOTAL	3,200		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
723	Shower & Latrine Facility	5,700
	SUBTOTAL PROJECTS OVER $1M	5,700
	TOTAL	5,700
B. PLANNED NEXT THREE PROGRAM YEARS :		
211	UNIT MAINT HANGER, AVUM	16,800
179	MULTIPURPOSE TNG RANGE	15,000
722	DIN, SHOWER, LATRINE PH-1	14,000
721	BILLETS COOK CAMPSITE	12,600
	SUBTOTAL PROJECTS OVER $1M	58,400
	TOTAL	58,400

10. MISSION OR MAJOR FUNCTIONS:

To direct activities and command units assigned to Fort A P Hill (semi- active installation); to provide administrative support, logistical support, and maneuver and training areas for reserve components, various temporarily assigned units of the active army, other military services, and

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort A P Hill Virginia

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

governmental agencies; to perform natural resource management of the installation and to operate the US Army recreational facility used for hunting, fishing and many other forms of outdoor recreation at Fort A P Hill, Virginia.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort A P Hill, Virginia	4.PROJECT TITLE Fuel Storage Facility

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 411	7.PROJECT NUMBER 9912	8.PROJECT COST ($000) Auth 3,200 Approp 3,200

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,864
Office Building	SF	420	195.24	(82)
Filter Separator Building	LS	–	–	(82)
Equipment & UG Storage Tanks	LS	–	–	(1,697)
Information Systems	LS	–	–	(3)
Supporting Facilities				988
Electric Service	LS	–	–	(177)
Water, Sewer & Gas	LS	–	–	(103)
Paving, Walks, Curbs & Gutters	LS	–	–	(311)
Storm Drainage	LS	–	–	(97)
Site Improvement	LS	–	–	(247)
Information Systems	LS	–	–	(53)
Subtotal				2,852
Contingency (5.00%)				143
Total Contract Cost				2,995
Supervision, Inspection & Overhead (6.00%)				180
Total Request				3,175
Total Request (Rounded)				3,200
Installed Equipment - Other Appropriations				(24)

10.Description of Proposed Construction Construct a fuel storage facility to include underground (U/G) fuel storage and a paved load stand area for drum storage, vapor recovery system tanks, submersible fill pipes, pump stations, a vapor recovery system to accommodate jet fuel (JP-4), diesel, motor gasoline (MOGAS) and number one and number two heating fuels. Office space and latrine will be provided. Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, paving, pollution control systems, security fencing and lighting, truck barriers, and site improvements. The high supporting facilities costs are due to construction in an undeveloped area and the need to remove and replace contaminated soil. Heating and air conditioning (1.5 tons) will be provided by a self-contained heat pump. Mechanical ventilators will be provided in the toilet area and filter separator building.

11. REQUIREMENT: 250,000 GA ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a fuel storage facility. (Current Mission)

REQUIREMENT: This project is required to provide adequate fuel storage to support an annual training load of over 200,000 troops, equivalent to two million man days.

CURRENT SITUATION: The petroleum, oils, and lubricants (POL) operation

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort A P Hill, Virginia

4. PROJECT TITLE Fuel Storage Facility	5. PROJECT NUMBER 9912

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
supplies training units ranging from company to division size with 25 to 50 helicopters and 30 to 200 vehicles each during their training period. On average, 300 helicopters and 2,500 vehicles are refueled per month. The annual fuel use to meet training and in-house requirements is 700,000 gallons of jet fuel, 600,000 gallons of diesel fuel, 500,000 gallons of MOGAS, and 325,000 gallons of heating oil. This large quantity of fuel is hauled from Yorktown, Virginia, by government resources (a distance of about 200 miles) using borrowed 5,000 gallon tankers from local vendors. (In April, 1988, an unloaded tractor trailer's brakes caught fire while in route to Yorktown to pick up fuel. Fortunately no one was injured and only the empty trailer was lost.) On post the fuel must be stored in temporary combat tanker trucks. This type of operation is expensive, inadequate, unsafe, environmentally unsound, and unreliable. The storage capacity to accommodate ongoing weekend, holiday, day and night training exercises is not available and the vendor does not work during these times. On many occasions these shortcomings have caused delays in training because of insufficient fuel. Fuel transportation and storage is totally inadequate for an installation that trains over 200,000 troops annually; steady increases are placing an even heavier burden on an already overloaded system. Additionally, there are many leaks in the tankers ranging from cracks to leaking valves. Numerous spills occur when transferring fuel from one tanker to another. Hose and gasket seals break and leak overnight. The POL personnel operate seven days per week. They are continually covering spills with sand to reduce the hazard of spontaneous ignition of vapors, which are also dangerous to the health of the fuel distribution workers. The leaks and spills cause environmental pollution; the contaminated soil must be removed and replaced. The availability of all fuels is critical not only to ensure the completion of training requirements, but also to provide an adequate supply of heating fuel during cold weather to protect Government facilities from freezing.

IMPACT IF NOT PROVIDED: If this project is not provided, Fort AP Hill will be forced to continue to operate a fuel system that is expensive, inadequate, unsafe, environmentally unsound, and unreliable. This could cause units to experience delays in receiving the fuel necessary to complete their mandatory readiness training.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort A P Hill, Virginia		
4. PROJECT TITLE Fuel Storage Facility		5. PROJECT NUMBER 9912

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status:

(a)	Design Start Date	Mar 84
(b)	Percent Complete As Of 01 January 90 (BDGT YR)	98
(c)	Percent Complete As Of 01 October 90 (PROG YR)	100
(d)	Design Complete Date	Jan 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	73
(b)	All Other Design Costs	51
(c)	Total Cost	124
(d)	Contract	81
(e)	In-house	43

(4) Construction Start .... Jan 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	24
		TOTAL	24

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lee Virginia	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .90

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	706	2550	3571	789	4009	482	16	47	600	12,770
B. END FY 95	755	2821	4140	667	5080	432	16	47	600	14,558

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 5,575 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	0
C. AUTHORIZATION NOT YET IN INVENTORY..................................	45,824
D. AUTHORIZATION REQUESTED IN THIS PROGRAM.............................	520
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM.........................	13,100
F. PLANNED IN NEXT THREE YEARS...	80,900
G. REMAINING DEFICIENCY..	288,648
H. GRAND TOTAL...	428,992

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	32980	Food Service Training Facility Add	520	10/89	08/90
		SUBTOTAL PROJECTS $1M & LESS	520		
		TOTAL	520		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
721	Barracks	6,600
721	Barracks	6,500
	SUBTOTAL PROJECTS OVER $1M	13,100
	TOTAL	13,100
B. PLANNED NEXT THREE PROGRAM YEARS :		
171	General Instruction Facility	15,600
721	BARRACKS	12,400
721	ENLISTED BARRACKS	11,400
	SUBTOTAL PROJECTS OVER $1M	39,400
	TOTAL	39,400

10. MISSION OR MAJOR FUNCTIONS:

Provides support and facilities for the US Army Quartermaster Center and School, US Army Logistics Management Center, major combat and combat support forces and other tenant activities, support reserve components and other satellited activities and units.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Lee Virginia

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11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Lee, Virginia	4. PROJECT TITLE Food Service Training Facility Addition

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 171	7. PROJECT NUMBER 32980	8. PROJECT COST ($000) Auth 520 Approp 520

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				469
Food Svc Tng Facility Addition	SF	4,900	71.95	(353)
Covered Training Pavilion	SF	900	19.55	(18)
Ration Warehouse	SF	2,000	44.00	(88)
EMCS Connection	LS	-	-	(10)
Subtotal				469
Contingency (5.00%)				23
Total Contract Cost				492
Supervision, Inspection & Overhead (6.00%)				30
Total Request				522
Total Request (Rounded)				520
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct an addition to the existing food service training facility. Addition will be required to match existing construction and will have four applied classrooms (1,225 SF each), one covered pavilion, a ration warehouse, and a sprinkler system for the warehouse. Heating and air conditioning (25 tons) will be provided by self-contained units. Connect to existing energy monitoring and control system (EMCS). Access for the handicapped will be provided.

11. REQUIREMENT: 424,029 SF ADEQUATE: 84,064 SF SUBSTANDARD: 277,482 SF

PROJECT: Construct an addition to a food service training facility. (Current Mission)

REQUIREMENT: This project is required in conjunction with the Base Closure, Army (BCA) program, Project Number 31326 (FY 91), "Addition to Food Service Training Facility." Due to the functional and instructional requirements, food service training must be collocated and consolidated in one adequate facility. By providing the requirements identified in this project along with that required by BCA, optimum use can be made of instructional staff, of property, and equal training opportunities for all.

CURRENT SITUATION: Currently training is conducted in two buildings, which are located approximately three miles apart. The BCA food service addition is

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Lee, Virginia

4. PROJECT TITLE	5. PROJECT NUMBER
Food Service Training Facility Addition	32980

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
programmed in FY 91 under Base Realignment, which will take care of the training load increase only. One building is a temporary World War II structurally unsafe, wooden frame building that requires costly maintenance.

IMPACT IF NOT PROVIDED: If this project is not provided in conjunction with BCA Project 31326, the 706-student increase in the average load Advanced Individual Training will not be accommodated. The two projects must be executed concurrently. This will result in loss of training, constitutes a fire hazard, and high utility and maintenance costs will continue to occur. Training will continue to be fragmented, resulting in high transportation cost.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Oct 89

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 15

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Aug 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 25

(b) All Other Design Costs 15

(c) Total Cost 40

(d) Contract 30

(e) In-house 10

(4) Construction Start .... Apr 91
month & year

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lee, Virginia		
4. PROJECT TITLE Food Service Training Facility Addition		5. PROJECT NUMBER 32980

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DD FORM 1 DEC 76 1391C

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Myer Virginia	4. COMMAND US Army Military District of Washington	5. AREA CONSTRUCTION COST INDEX 1.04

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	108	1878	196	0	0	0	0	841	0	3,023
B. END FY 95	111	1891	349	0	0	0	0	841	0	3,192

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 256 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89..	45,864
C. AUTHORIZATION NOT YET IN INVENTORY..	1,211
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..	2,150
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..	4,000
F. PLANNED IN NEXT THREE YEARS..	27,300
G. REMAINING DEFICIENCY..	18,493
H. GRAND TOTAL..	99,018

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
740	25248	Child Development Center	2,150	03/89	09/90
		SUBTOTAL PROJECTS OVER $1M	2,150		
		TOTAL	2,150		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
740	Physical Fitness Training Center	4,000
	SUBTOTAL PROJECTS OVER $1M	4,000
	TOTAL	4,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
452	Bulk Storage Facility	15,000
610	Administration Facility	10,200
721	MOD EM BKS-PH1	2,100
	SUBTOTAL PROJECTS OVER $1M	27,300
	TOTAL	27,300

10. MISSION OR MAJOR FUNCTIONS:

The mission of Fort Myer is to serve as the Troop/Ceremonial post within Military District of Washington (MDW) by providing troop housing and administration support to military personnel. The post houses the Chairman of the Joint Chiefs of Staff, the Chief of Staff of the Army, Chief of Staff of the Air Force and General Officers of the Army General Staff and the enlisted work

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Myer Virginia

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

force of the Department of Defense, Department of the Army and MDW.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DD FORM 1 DEC 76 1390C

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Myer, Virginia	4.PROJECT TITLE Child Development Center

5.PROGRAM ELEMENT 91296A	6.CATEGORY CODE 740	7.PROJECT NUMBER 25248	8.PROJECT COST ($000) Auth 2,150 Approp 2,150

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,395
Child Development Center	SF	11,210	103.03	(1,155)
Playground w/Equipment	LS	-	-	(60)
Piling Foundation	LS	-	-	(179)
Information Systems	LS	-	-	(1)
Supporting Facilities				556
Electric Service	LS	-	-	(248)
Water, Sewer & Gas	LS	-	-	(45)
Paving, Walks, Curbs & Gutters	LS	-	-	(32)
Storm Drainage	LS	-	-	(16)
Site Improvement (140) Demolition (65)	LS	-	-	(205)
Information Systems	LS	-	-	(10)
Subtotal				1,951
Contingency (5.00%)				98
Total Contract Cost				2,049
Supervision, Inspection & Overhead (6.00%)				123
Total Request				2,172
Total Request (Rounded)				2,150
Installed Equipment - Other Appropriations				(2)

10.Description of Proposed Construction Construct a standard-design addition to the existing cild development center. Building is to be composed of standard modules including two modules for 40 infants, two modules for 64 toddlers, two modules for 41 preschoolers (for a total of 145 children), and an administrative module including patron reception area, isolation room, storage, janitor rooms, toilets, laundry and staff offices. Additional kitchen space is not required; however, renovation and more equipment is required to provide adequate food storage space. Child activity spaces to include motor activity, book, music and media, imaginative play and table activity areas, toilets and diapering stations. Supporting facilities include utilities extended from existing systems, information systems, and site improvements. Access for the handicapped will be provided. Adequate parking and playground space exists. Heating will be provided by an existing central heating plant, air conditioning (56 tons) will be provided by a self-contained system.

11. REQUIREMENT: 26,850 SF ADEQUATE: 11,210 SF SUBSTANDARD: None

PROJECT: Construct a standard-design addition to the child development center including renovation of the present kitchen space. (Current Mission)

REQUIREMENT: This project is required to accommodate 145 children between

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Myer, Virginia

4. PROJECT TITLE Child Development Center	5. PROJECT NUMBER 25248

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
the ages of six weeks and five years. The installation married population is 1,431 and the authorized 20 percent of this population is 286.

CURRENT SITUATION: The Fort Myer Child Development Center has a verified waiting list of 275 children requiring daytime care. Currently child care is provided to 83 children in a former school building that also houses other activities. This facility does not meet minimum administrative space requirements of an isolation room, patron reception area, storage and staff offices. It is well known in the military community that the center capacity is 83 and that the waiting period of enrollment is over a year. As a result, a number of parents decide not to put their children on the waiting list. There are no suitable alternatives. Civilian centers in the Fort Myer area have long waiting lists and do not usually provide infant and toddler care. Child care centers at other area military installations are filled to capacity and also have waiting lists. Adequate child care has been consistently recognized as prerequisite for the parent-soldier to optimally perform the Army's mission.

IMPACT IF NOT PROVIDED: If this project is not provided, the lack of adequate child care at Fort Myer will adversely affect mission readiness, retention, and service member morale. Service members will continue to place their children in costly non-military settings, often miles from their work (the Fort Myer military community commutes). In the event of illness or an emergency, parents have an additional hardship of having to travel a great distance to get their children.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... Mar 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Sep 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes X No ___
    - (b) Where Design Was Most Recently Used Fort Ritchie, Md
  - (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Myer, Virginia		
4. PROJECT TITLE Child Development Center		5. PROJECT NUMBER 25248

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(a) Production of Plans and Specifications	75
(b) All Other Design Costs	75
(c) Total Cost	150
(d) Contract	84
(e) In-house	66

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	2
		TOTAL	2

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Story Virginia	4. COMMAND US Army Training and Doctrine Command	5. AREA CONSTRUCTION COST INDEX .92

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	53	1065	17	0	19	0	71	278	47	1,550
B. END FY 95	55	1069	17	0	21	0	59	269	47	1,537

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 1,446 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89..	0
C. AUTHORIZATION NOT YET IN INVENTORY....................................	3,350
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	1,600
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	750
F. PLANNED IN NEXT THREE YEARS...	17,101
G. REMAINING DEFICIENCY..	19,173
H. GRAND TOTAL...	41,974

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
730	03256	Emergency Services Building	1,600	09/88	01/90
		SUBTOTAL PROJECTS OVER $1M	1,600		
		TOTAL	1,600		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
740	Child Development Center	750
	SUBTOTAL PROJECTS $1M & LESS	750
	TOTAL	750
B. PLANNED NEXT THREE PROGRAM YEARS :		
214	MAINTENANCE SHOP	7,500
740	LIBRARY/REC CTR/EDUCATION	5,500
442	GENERAL PURPOSE WHSE	2,600
	SUBTOTAL PROJECTS OVER $1M	15,600
141	Battalion Headquarters	821
	SUBTOTAL PROJECTS $1M & LESS	821
	TOTAL	16,421

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Story Virginia

10. MISSION OR MAJOR FUNCTIONS:

Amphibious training of active Army and reserve units. Provides support to the US Army Transportaion School at Fort Eustis and various tenant activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Story, Virginia	4. PROJECT TITLE Emergency Services Building

5. PROGRAM ELEMENT 85796A	6. CATEGORY CODE 730	7. PROJECT NUMBER 3256	8. PROJECT COST ($000) Auth 1,600 Approp 1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,177
Emergency Services Bldg	SF	12,390	85.65	(1,061)
Information Systems	LS	–	–	(67)
Emergency Generator (150 KVA)	LS	–	–	(42)
IDS Installation	LS	–	–	(7)
Supporting Facilities				260
Electric Service	LS	–	–	(18)
Water, Sewer & Gas	LS	–	–	(5)
Paving, Walks, Curbs & Gutters	LS	–	–	(74)
Storm Drainage	LS	–	–	(23)
Site Improvement (41) Demolition (47)	LS	–	–	(88)
Information Systems	LS	–	–	(52)
Subtotal				1,437
Contingency (5.00%)				72
Total Contract Cost				1,509
Supervision, Inspection & Overhead (6.00%)				91
Total Request				1,600
Total Request (Rounded)				1,600
Installed Equipment - Other Appropriations				(105)

10. Description of Proposed Construction Construct a modified standard-definitive design Emergency Services Building to house the two-company fire department and military police activities. The military police area will consist of operations, services, command, lock-up, and routing areas. Install an intrusion detection system (IDS). Supporting facilities include utilities, underground electrical distribution, exterior lighting, water service and hydrants, sanitary sewer distribution, storm drainage, emergency power generation, fire protection and alarm systems, parking, a fenced impoundment area, walks, curbs and gutters, information systems, and site improvements. Heating and air conditioning (20 tons) will be provided by self-contained units. Access for the handicapped will be provided. Demolish six buildings (15,556 SF). Support facility costs are high because of relocating the IDS and fire alarm equipment, demolishing six buildings and the associated communications costs.

11. REQUIREMENT: 12,389 SF ADEQUATE: None SUBSTANDARD: 12,152 SF

PROJECT: Construct a modified standard-definitive design Emergency Services Building to house the two-company fire department and military police activities. (Current Mission)

REQUIREMENT: This project will provide a facility to house the Fort Story

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Fort Story, Virginia

4.PROJECT TITLE Emergency Services Building	5.PROJECT NUMBER 3256

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
Military Police and the two-company fire department. Facilities are required to support the new missions of the Light Air Cushioned Vehicle (LACV-30), terminal petroleum company, and the rough terrain vehicle training, along with the associated doubling of the post population.

CURRENT SITUATION: The existing military police and fire department facilities are in decrepit condition, and are widely dispersed across the installation away from most of the activities of the post. The military police building is a concrete, subterranean, converted harbor entrance control tower, that produces high humidity, tending to promote fungus and mildew and accelerated deterioration of automated data processing and other equipment. The detention area is a set of three foot by five foot cages that do not meet standards. With the fire department located in World War II wood structures at the opposite end of the post from the LACV-30 vehicles, fire protection support is inadequate. New fire fighting equipment cannot fit into the present facility and lacks adequate space for training fire fighters. Both facilities are inefficient. Operations in existing facilities occupy 12,152 SF but the efficiency of consolidation will make the facility requirement 11,439 SF.

IMPACT IF NOT PROVIDED: If this project is not provided, the military police and fire department will be forced to continue to operate in their present dispersed, inefficient and inadequate facilities. Fire department equipment will deteriorate because of prolonged exposure to the inclement weather and ocean salt spray experienced at Fort Story. Without this facility, adequate fire suppression capability cannot be provided to military families or the very expensive ($4,300,000 each) LACV-30 craft.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Sep 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jan 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Initial Use

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Story, Virginia		
4. PROJECT TITLE Emergency Services Building		5. PROJECT NUMBER 3256

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	85
(b)	All Other Design Costs	80
(c)	Total Cost	165
(d)	Contract	
(e)	In-house	165

(4) Construction Start .... Jan 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Antennas	OPA	91	65
IDS Equipment	OPA	91	40
		TOTAL	105

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Washington		Fort Lewis (FORSCOM)				353
	2314	Automated Record Fire Range		1,250	1,250	355
	6995	Tactical Support Center		5,100	5,100	358
	12044	Brigade Headquarters		8,800	8,800	361
	16714	Chapel Center		2,850	2,850	364
		SUBTOTAL Fort Lewis PART I	$	18,000	18,000	
		* TOTAL MCA FOR Washington	$	18,000	18,000	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis Washington	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.10

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	2835	18827	3218	13	267	0	45	92	489	25,786
B. END FY 95	2982	18909	3921	11	244	0	45	92	489	26,693

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	86,174 AC
B. INVENTORY TOTAL AS OF 30 SEP 89....................	392,934
C. AUTHORIZATION NOT YET IN INVENTORY....................	68,743
D. AUTHORIZATION REQUESTED IN THIS PROGRAM....................	18,000
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM....................	60,750
F. PLANNED IN NEXT THREE YEARS....................	272,478
G. REMAINING DEFICIENCY....................	540,129
H. GRAND TOTAL....................	1,353,034

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
179	02314	Automated Record Fire Range	1,250	09/85	06/90
141	06995	Tactical Support Center	5,100	01/89	08/90
141	12044	Brigade Headquarters	8,800	06/87	03/90
730	16714	Chapel Center	2,850	10/88	09/90
		SUBTOTAL PROJECTS OVER $1M	18,000		
		TOTAL	18,000		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
141	Battalion Headquarters	6,300
141	Operations Facility	2,650
141	Battalion Headquarters Addition	7,300
214	Tactical Equipment Shop	25,000
911	Land Acquisition for Yakima	18,500
	SUBTOTAL PROJECTS OVER $1M	59,750
121	Hot Refueling Point	1,000
	SUBTOTAL PROJECTS $1M & LESS	1,000
	TOTAL	60,750

10. MISSION OR MAJOR FUNCTIONS:

Responsible for command training and logistical support of a corps headquarters,an infantry division, non-divisional support units, and active component, FORSCOM units assigned to I Corps,

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort Lewis Washington

10. MISSION OR MAJOR FUNCTIONS: (...CONTINUE)

support to Madigan Army Medical Center, and Reserve Component annual training.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Lewis, Washington	4. PROJECT TITLE Automated Record Fire Range

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 179	7. PROJECT NUMBER 2314	8. PROJECT COST ($000) Auth 1,250 Approp 1,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,087
Record Fire Range	LS	-	-	(1,072)
Information Systems	LS	-	-	(15)
Supporting Facilities				25
Information Systems	LS	-	-	(25)
Subtotal				1,112
Contingency (5.00%)				56
Total Contract Cost				1,168
Supervision, Inspection & Overhead (6.00%)				70
Total Request				1,238
Total Request (Rounded)				1,250
Installed Equipment - Other Appropriations				(587)

10. Description of Proposed Construction Construct a standard-design Modified Record Fire (MRF) rifle marksmanship range consisting of 16 lanes with nine infantry targets from 50 to 300 meters downrange and one foxhole per lane. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower with an intrusion detection system (IDS), latrines, general instruction building, range personnel and storage building, ammunition breakdown building, covered bleacher, covered mess, maintenance trails, parking areas, foxholes, target emplacements, information systems, site improvements, and demolition of four wooden structures (2,192 SF) and wooden target emplacements. Emplacement work will consist of target coffins, berm and retaining wall construction, and junction box, and power and data cable installation. Speaker posts and wiring will be installed for a public address system. Range lighting for cleanup, emergencies, and night firing will be provided. Infantry remoted target systems (IRETS) target and control system equipment will be utilized on this range. Heating and air conditioning (5 tons) will be provided by a self-contained oil-fired system for the control tower. Supporting facilities include all construction outside the perimeter of the range complex and includes information systems. Targetry to be funded by other project appropriations (OPA).

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Lewis, Washington

4. PROJECT TITLE Automated Record Fire Range	5. PROJECT NUMBER 2314

11. REQUIREMENT: 4 EA ADEQUATE: None SUBSTANDARD: 4 EA

PROJECT: Construct a standard-design Modified Record Fire range. (Current Mission)

REQUIREMENT: This project is required to provide improved and new training facilities for I Corps, 9th Infantry Division, tenant units, Reserve Components, Reserve Officers Training Corps (ROTC), Washington National Guard, DOD components, and Allied Forces that train at Fort Lewis, to meet the needs for training and improve the combat readiness of the soldiers assigned to these units.

CURRENT SITUATION: Rifle marksmanship is being conducted on stationary targets using manual controls and scoring which is time consuming and inefficient. Completion of this project will allow the targetry to respond to computer-driven automated scenarios and will provide an immediate computer scored readout. Automated scoring evaluates each soldier's skill at correctly identifying and engaging multiple targets. The computer driven scenarios will allow realistic evaluation of each individual soldier by eliminating patterns in the target display system and any advantage of familiarity that is characteristic of existing target and range systems.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on unit training. Soldiers will not be able to attain the degree of proficiency required for combat. Soldiers will be required to train on inadequate, antiquated, manually operated and scored ranges which are not as safe, accurate and efficient as they should be.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Training at other installations. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($2,197 K) is recommended, as more cost effective than Training at other installations ($181,747 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Sep 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 90
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jun 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used HNDM Manual 1110-1-5

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DD FORM 1 DEC 76 1391C

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis, Washington		
4. PROJECT TITLE Automated Record Fire Range		5. PROJECT NUMBER 2314

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost (c) = (a)+(b) or (d)+(e):

		($000)
(a)	Production of Plans and Specifications	59
(b)	All Other Design Costs	149
(c)	Total Cost	208
(d)	Contract	84
(e)	In-house	124

(4) Construction Start .... Mar 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Targets	OPA	91	573
IDS Equipment	OPA	91	14
		TOTAL	587

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis, Washington		4. PROJECT TITLE Tactical Support Center	
5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 610	7. PROJECT NUMBER 6995	8. PROJECT COST ($000) Auth 5,100 Approp 5,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,428
Tactical Support Center Addition	SF	20,000	136.80	(2,736)
Building Renovation	LS	–	–	(573)
IDS Installation	LS	–	–	(61)
Emergency Generator	LS	–	–	(58)
Supporting Facilities				957
Electric Service	LS	–	–	(62)
Water, Sewer & Gas	LS	–	–	(55)
Paving, Walks, Curbs & Gutters	LS	–	–	(178)
Site Improvement (533) Demolition (38)	LS	–	–	(571)
Information Systems	LS	–	–	(91)
Subtotal				4,385
Contingency (10.00%)				439
Total Contract Cost				4,824
Supervision, Inspection & Overhead (6.00%)				289
Total Request				5,113
Total Request (Rounded)				5,100
Installed Equipment - Other Appropriations				(455)

10. Description of Proposed Construction Construct a standard-design tactical support center addition with intrusion detection system (IDS) to the I Corps Command and Control Facility. Emergency power is required. Provide seismic bracing and minor structural modifications in the existing facility. Temporarily relocate building occupants as required for construction. Provide electrical modifications to meet code requirements, replace deteriorated plumbing, and upgrade the existing heating system. Supporting facilities include relocation of existing utilities, storm drainage, information systems, fire protection and alarm systems, and site improvements. Access for the handicapped will be provided. Demolish two buildings (4,992 SF). Air conditioning: 40 tons.

11. REQUIREMENT: 94,918 SF ADEQUATE: 74,918 SF SUBSTANDARD: 10,655 SF

PROJECT: Construct a standard-design tactical support center addition to the existing I Corps Command and Control Facility. (Current Mission)

REQUIREMENT: This project is required to provide adequate tactical support area to support I Corps, which was activated at Fort Lewis, October 1981. The existing permanent facility is not adequate to satisfy the Corps' functional requirement for operational space and the expanded and necessary telecommunications capability for combat readiness. Structural and electrical modifications in the existing facility are needed to meet code requirements.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort Lewis, Washington		
4.PROJECT TITLE Tactical Support Center		5.PROJECT NUMBER 6995

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
Plumbing and heating upgrades are required to provide an adequate working environment for the occupants.

CURRENT SITUATION: I Corps currently operates from numerous buildings, both permanent and temporary, over a large area of post. Tactical support space is critically short. The existing Emergency Operations Center is in violation of life safety codes. The existing telecommunications network is inadequate to meet the expanded requirements for combat readiness. The existing permanent facility to be renovated was built in 1939. The plumbing is deteriorated, electrical wiring does not meet current codes, and the heating system is inadequate to meet minimum heat requirements in the winter. Fort Lewis is in a seismically active area and this facility has not been seismically braced.

IMPACT IF NOT PROVIDED: If this project is not provided, I Corps will be hampered in its effort to conduct its command and control function. Utilization of temporary buildings for operational functions will continue with the resulting inefficiency and undesirable spatial dispersion. I Corps will not be provided with an expanded and necessary telecommunications capability for combat readiness. The existing building will continue to have inadequate electrical wiring, plumbing, and heating. Civilian and military lives, equipment, and the I Corps' mission will be in jeopardy in the event of an earthquake. Life safety codes will continue to be violated.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing Addition to New Construction. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. Addition ($5,554 K) is recommended, as more cost effective than New Construction ($15,453 K).

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... Jan 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 65
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Aug 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes X No ___
    - (b) Where Design Was Most Recently Used Std Design Manual

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis, Washington		
4. PROJECT TITLE Tactical Support Center		5. PROJECT NUMBER 6995

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	184
(b) All Other Design Costs	241
(c) Total Cost	425
(d) Contract	325
(e) In-house	100

(4) Construction Start .... Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	13
Projection Booths	OPA	91	2
Information Sys Eq	OPA	91	440
		TOTAL	455

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort Lewis, Washington	4.PROJECT TITLE Brigade Headquarters

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 141	7.PROJECT NUMBER 12044	8.PROJECT COST ($000) Auth 8,800 Approp 8,800

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,217
Intelligence Operations Facility	SF	43,868	120.32	(5,278)
Command & Control Building	SF	10,407	151.15	(1,573)
Administration & Shop Building	SF	1,632	90.00	(147)
Guard House	SF	192	197.92	(38)
Vehicle Storage Facility	SF	1,200	35.83	(43)
See Cost Estimates (Continued)				(138)
Supporting Facilities				646
Electric Service	LS	–	–	(60)
Water, Sewer & Gas	LS	–	–	(71)
Paving, Walks, Curbs & Gutters	LS	–	–	(174)
Storm Drainage	LS	–	–	(92)
Site Improvement	LS	–	–	(191)
Information Systems	LS	–	–	(58)
Subtotal				7,863
Contingency (5.00%)				393
Total Contract Cost				8,256
Supervision, Inspection & Overhead (6.00%)				495
Total Request				8,751
Total Request (Rounded)				8,800
Installed Equipment - Other Appropriations				(182)

10.Description of Proposed Construction Construct an intelligence operations building with a sensitive compartmented information facility (SCIF), a standard-design brigade command and control facility, an adminstration and shop building, a vehicle storage facility, and a guard house. Install an intrusion detection system (IDS) and associated video monitoring system. Supporting facilities include utilities, electric service, storm drainage, fire protection, paving, walks, curbs and gutters, information systems, and site improvements. Heating and air conditioning (90 tons) will be provided by self-contained unit for the Intelligence Operations Building. Heating for the brigade, administrative and shop, and guard house buildings will be provided by self-contained units. Access for the handicapped will be provided. Mechanical ventilation: 55,000 CFM.

11. REQUIREMENT: 48,884 SF ADEQUATE: 5,000 SF SUBSTANDARD: 10,584 SF

PROJECT: Construct a standard-design brigade headquarters. (Current Mission)

REQUIREMENT: This project is required to support the Military Intelligence (MI) Brigade. The Intelligence Operations building is required to provide a secure facility to accomplish the brigade's primary mission. The Brigade Command and Control facility is required to support brigade-level command

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis, Washington		
4. PROJECT TITLE Brigade Headquarters		5. PROJECT NUMBER 12044

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
IDS Installation	LS	-	-	22
Information Systems	LS	-	-	116
			Total	138

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
functions. The vehicle storage facility and administration and shop facility are required to support the fielding of the Enhanced Tactical Users Terminal (ETUT), the Electronic Processing and Dissemination System (EPDS), and the Imagery Processing and Dissemination System (IPDS). The guard house is required for security of the complex. This project will support a population of 285 personnel.

CURRENT SITUATION: Currently the brigade is performing SCIF-type duties by sharing two other units' SCIFs on main post. Collateral duties are performed in three temporary World War II buildings located on North Fort Lewis. The brigade command functions are being carried out in four temporary World War II buildings located on North Fort Lewis. The ETUT and EPDS functions are being carried out in semi-permanent structures located at North Fort Lewis. Soldiers are billeted in temporary World War II barracks on North Fort Lewis due to the proximity of the available command and control operational facilities. Adequate permanent facilities are not available to support the brigade's mission. This project is located on main post, which will allow soldier's to move from temporary World War II barracks at North Fort Lewis into available permanent barracks on main post.

IMPACT IF NOT PROVIDED: If this project is not provided, the Military Intelligence (MI) Brigade will not have adequate operational facilities in which to conduct their primary mission, thereby jeopardizing the military readiness with which the unit would be able to meet the Corps' intelligence support requirement. The brigade would continue to occupy temporary buildings and billets on North Fort Lewis, resulting in costly renovation expenditures on structures that Congress eventually intends to have demolished. Operations would continue to be inefficient and fragmented between main post and various parts of North Fort Lewis due to the lack of a consolidated complex.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Lewis, Washington

4. PROJECT TITLE Brigade Headquarters	5. PROJECT NUMBER 12044

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status:

(a) Design Start Date .... Jun 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 85
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... May 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used ______________________

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 370
(b) All Other Design Costs 337
(c) Total Cost 707
(d) Contract 522
(e) In-house 185

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Video System Eq	OPA	91	100
Floor Safes	OPA	91	15
IDS Equipment	OPA	91	5
Information Systems	OPA	91	62
		TOTAL	182

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort Lewis, Washington	4. PROJECT TITLE Chapel Center

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 730	7. PROJECT NUMBER 16714	8. PROJECT COST ($000) Auth 2,850 Approp 2,850

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,121
Chapel Center	SF	11,200	104.00	(1,165)
Religious Education Facility	SF	5,000	119.00	(595)
Family Life Center	SF	3,000	92.00	(276)
Bell Tower	LS	–	–	(45)
Covered Drop Off	SF	750	45.83	(34)
Information Systems	LS	–	–	(6)
Supporting Facilities				423
Electric Service	LS	–	–	(42)
Water, Sewer & Gas	LS	–	–	(6)
Paving, Walks, Curbs & Gutters	LS	–	–	(96)
Storm Drainage	LS	–	–	(64)
Site Improvement	LS	–	–	(205)
Information Systems	LS	–	–	(10)
Subtotal				2,544
Contingency (5.00%)				127
Total Contract Cost				2,671
Supervision, Inspection & Overhead (6.00%)				160
Total Request				2,831
Total Request (Rounded)				2,850
Installed Equipment - Other Appropriations				(114)

10. Description of Proposed Construction Construct a standard-design unit chapel with religious education facility and family life community center. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, fire protection and alarm systems, information systems, storm drainage, and site improvements. Access for the handicapped will be provided. The heating system will be provided by a self-contained dual fuel unit. Mechanical ventilation: 110,000 CFM.

11. REQUIREMENT: 191,960 SF ADEQUATE: 53,211 SF SUBSTANDARD: 59,753 SF

PROJECT: Construct a standard-design unit chapel (200-400 seat capacity) with religious education facility and family life community center. (Current Mission)

REQUIREMENT: This project is required to provide a unit chapel with religious education facility and family life community center to serve two battalions, the new Special Operations Command (SOCOM) complex, and 1,339 family housing units which are adjacent to this area. No other chapel exists in the immediate area. This project will provide a full range of religious services and religious education for a large military population and their family members.

CURRENT SITUATION: There is currently no chapel, religious education

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort Lewis, Washington

4. PROJECT TITLE Chapel Center	5. PROJECT NUMBER 16714

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
facility, or family life community center in this area to meet the religious needs of the soldiers and their families. The existing chapels do not adequately support current and future troop strengths. Current assets of all categories of religious facilities post-wide are deficient by over 100,000 SF. The greatest deficiency exists in the religious education facility category. There is currently only 6,956 SF of this type of facility, and is located at the main post chapel. Total existing seats for the post is 1,172.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be no chapel, religious education facility, or family life community center in this area to meet the religious needs of the soldiers and their families. Existing chapels, the single family life community center, and the single religious education facility will be inadequate to support the religious needs of the large influx of soldiers into this area. This new single soldier population is in addition to the military population and family members in the adjacent housing areas and barracks. Overcrowding of the existing chapels, religious education facility, and family life community center will continue. Increased transportation assets would be required to transport soldiers to existing chapels.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Oct 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 65

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Campbell, KY

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 157

(b) All Other Design Costs 160

(c) Total Cost 317

(d) Contract 0

(e) In-house 317

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort Lewis, Washington		
4. PROJECT TITLE Chapel Center		5. PROJECT NUMBER 16714

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	39
Chapel Furnishings & Equipment	OPA	91	75
		TOTAL	114

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Wisconsin		Fort McCoy (FORSCOM)				369
	5893	Multi-Purpose Training Range		8,900	8,900	371
	8797	Central Wash Facility		5,000	5,000	375
	12281	Central Fuel Storage Facility		5,500	5,500	378
	18959	Cold Storage Warehouse		5,000	5,000	382
		SUBTOTAL Fort McCoy PART I	$	24,400	24,400	
		* TOTAL MCA FOR Wisconsin	$	24,400	24,400	
**TOTAL INSIDE THE UNITED STATES FOR MCA			$	572,287	572,287	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy Wisconsin	4. COMMAND US Army Forces Command	5. AREA CONSTRUCTION COST INDEX 1.17

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	41	107	1053	102	231	132	39	83	87	1,875
B. END FY 95	51	148	1226	102	227	132	39	83	87	2,095

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	60,279 AC
B. INVENTORY TOTAL AS OF 30 SEP 89.....................................	59,199
C. AUTHORIZATION NOT YET IN INVENTORY....................................	3,078
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	24,400
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	16,000
F. PLANNED IN NEXT THREE YEARS..	52,746
G. REMAINING DEFICIENCY...	323,529
H. GRAND TOTAL..	478,952

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	05893	Multi-Purpose Training Range	8,900	11/88	10/90
214	08797	Central Wash Facility	5,000	06/88	09/90
124	12281	Central Fuel Storage Facility	5,500	03/89	09/90
432	18959	Cold Storage Warehouse	5,000	03/89	09/90
		SUBTOTAL PROJECTS OVER $1M	24,400		
		TOTAL	24,400		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
214	Consolidated Maintenance Facility	16,000
	SUBTOTAL PROJECTS OVER $1M	16,000
	TOTAL	16,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
211	AIRCRAFT MAINT HANGAR	11,073
721	ENLISTED BARRACKS W/O DINI	9,506
141	Automated Data Processing Facility	7,300
179	MOUT RANGE	6,300
	SUBTOTAL PROJECTS OVER $1M	34,179
	TOTAL	34,179

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Fort McCoy Wisconsin

10. MISSION OR MAJOR FUNCTIONS:

Fort McCoy, Wisconsin is a semi-active installation and is maintained on a continuous basis in support of permanent complement, Active Army, tenants, United States Army Reserves, USAR Component Groups, National Guard, Marine Reserves, and Airborne Forces Activities for the states of Illinois, Iowa, Minnesota, Upper Peninsula of Michigan, and Wisconsin, for a total in excess of 67,000 troops during annual training, environmental training, and annual MUTA Support.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	1,500
C. OCCUPATIONAL SAFETY AND HEALTH	3,800

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin	4. PROJECT TITLE Multi-Purpose Training Range

5. PROGRAM ELEMENT 22696A	6. CATEGORY CODE 179	7. PROJECT NUMBER 5893	8. PROJECT COST ($000) Auth 8,900 Approp 8,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,861
Range Support Building	SF	3,016	87.53	(264)
Range Control Tower	SF	600	266.67	(160)
Ammo Loading Dock	EA	1	67,000	(67)
Targets & Defilade Emp.	LS	–	–	(1,506)
Electric Service	LS	–	–	(1,073)
See Cost Estimates (Continued)				(4,791)
Supporting Facilities				110
Electric Service	LS	–	–	(104)
Information Systems	LS	–	–	(6)
Subtotal				7,971
Contingency (5.00%)				399
Total Contract Cost				8,370
Supervision, Inspection & Overhead (6.00%)				502
Total Request				8,872
Total Request (Rounded)				8,900
Installed Equipment - Other Appropriations				(934)

10. Description of Proposed Construction Construct a standard-design Multi-Purpose Training Range-Light (MPTR-L) to accommodate the simultaneous exercise of artillery, armor, infantry, and aviation units. All primary facilities are located inside the perimeter of the range each lane of the range will contain 16 stationary and four moving armor targets, 50 stationary infantry targets, 10 hostile fire simulators, 16 tank kill simulators, and night muzzle flash simulators, access roads, tank trails, utilities, information systems, earthen berms, ammunition handling facilities, a control tower equipped with automated targeting controls and scoring systems, a range support building containing a classroom and briefing room, a storage maintenance area, latrines (male and female), and dining area. Air conditioning (1 ton) will be provided for control tower only. Heating of tower and support building will be provided by liquid propane gas. Supporting facilities are outside the range complex perimeter and include one and one-half miles of electric service and information systems. Targetry will be provided by other project appropriations (OPA).

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: None
PROJECT: Construct a standard-design multi-purpose training range.
(Current Mission)

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort McCoy, Wisconsin

4. PROJECT TITLE Multi-Purpose Training Range	5. PROJECT NUMBER 5893

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Paving, Walks, Curbs, & Gutters	LS	–	–	3,074
Storm Drainage	LS	–	–	347
Site Improvement	LS	–	–	1,307
Information Systems	LS	–	–	63
			Total	4,791

REQUIREMENT: This project is required to provide 350 reserve and active component units with a range training facility capable of supporting realistic live-fire combined arms (infantry, armor, aviation) exercises. Force modernization issues that impact training are the introduction of the M-60A3, and M-1 tank into Fourth US Army units and the introduction of the Bradley Infantry Fighting Vehicle into the inventory.

CURRENT SITUATION: The existing live-fire ranges at Fort McCoy cannot support crew or section qualification requirements or combined arms training exercise for infantry, armor, and attack helicopters to meet Forces Command (FORSCOM) and Army standards. Existing Fort McCoy ranges were designed in the 1950s. Consequently, training is currently conducted on outdated battlefield equipment and doctrine which is seriously inadequate for modern warfare. Armor qualification is limited to engaging targets at known distances with scoring accomplished manually by observances.

IMPACT IF NOT PROVIDED: If this project is not provided, soldiers from a nine-state area (totaling more than 50,000 annually) will continue to train on ranges that do not provide realistic combined arms training and qualification to FORSCOM and Army standards. To develop combat proficiency, units would have to travel at least 650 miles to Fort Riley, Kansas. Transporting unit personnel and equipment is not practical due to cost and time constraints. Soldiers and units will continue to experience significant training delays at Fort McCoy caused by obsolete targeting systems and recurring equipment failures. These delays waste valuable training time and increase training costs. Combat readiness and ultimately actual combat survival are seriously compromised without the realistic training that this range provides.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Training at another installation. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($ 16,102 K) is recommended, as more cost effective than training at another installation ($ 18,641 K).

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4. PROJECT TITLE Multi-Purpose Training Range		5. PROJECT NUMBER 5893

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Nov 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Oct 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Fort Hood, Texas

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 267

(b) All Other Design Costs 89

(c) Total Cost 356

(d) Contract 312

(e) In-house 44

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Armor Target Moving, Carriers	OPA	91	501
Armor Target Stationary	OPA	91	67
Infantry Target, Stationary	OPA	91	64
Tanks Kill Simul	OPA	91	20
Hostile Fire Simul	OPA	91	25
Computer Control Station	OPA	91	29
Low Power Junction Boxes	OPA	91	39
High Power Junction Boxes	OPA	91	13
Target Interface Units	OPA	91	32
Data Breakout Panels	OPA	91	17

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4. PROJECT TITLE Multi-Purpose Training Range		5. PROJECT NUMBER 5893

12. SUPPLEMENTAL DATA: (Continued)

3-D Targets	OPA	91	1
Double Target Arms	OPA	91	3
Government Cost			
Installation (15%)	OPA	91	122
Information Sys Eq	OPA	91	1
		TOTAL	934

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort McCoy, Wisconsin	4.PROJECT TITLE Central Wash Facility

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 214	7.PROJECT NUMBER 8797	8.PROJECT COST ($000) Auth 5,000 Approp 5,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,643
Control & Restroom Building	SF	974	391.17	(381)
Pump Station Building	SF	840	529.76	(445)
Concrete Tank Trail	SY	5,242	44.07	(231)
Concrete Staging	SY	15,944	36.06	(575)
Equalization Basins	EA	1	409,000	(409)
See Cost Estimates (Continued)				(1,602)
Supporting Facilities				869
Electric Service	LS	–	–	(31)
Water, Sewer & Gas	LS	–	–	(60)
Paving, Walks, Curbs & Gutters	LS	–	–	(50)
Storm Drainage	LS	–	–	(27)
Site Improvement (638) Demolition (62)	LS	–	–	(700)
Information Systems	LS	–	–	(1)
Subtotal				4,512
Contingency (5.00%)				226
Total Contract Cost				4,738
Supervision, Inspection & Overhead (6.00%)				284
Total Request				5,022
Total Request (Rounded)				5,000
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct a central washrack facility for tracked and wheeled vehicles. Work includes wash lanes, hardstand, water treatment facility, sludge drying facility, pump houses, latrines, piping, fencing, gates, fresh water make-up line, lighting, and tank trails. Supporting facilities include utilities, electric service, storm drainage, paving, walks, curbs and gutters, fire protection and alarm systems, information systems, and site improvements.

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: 2 EA

PROJECT: Construct a central washrack facility. (Current Mission)

REQUIREMENT: This project is required to reduce the labor and utility costs for cleaning tracked and wheeled vehicles and to assure compliance with all state and federal environmental laws.

CURRENT SITUATION: There is only one vehicle washing facility accessible to tracked vehicles. This is located at the Equipment Concentration Site (ECS) compound, which was designed for routine maintenance cleaning of vehicles located on its compound (and not the current 22,100 vehicle washings it provides per year). During training exercises, cleaning operations are very slow and labor intensive, due to the additional demand. At least 1,100 training man-days are being wasted annually at the facility. Heavy use of the

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4. PROJECT TITLE Central Wash Facility		5. PROJECT NUMBER 8797

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Sedimentation Basin	EA	1	415,000	415
Intermitant Sand Filter	EA	1	247,000	247
Hose Tower Wash Stations	EA	24	18,542	445
Process Water Pressure	EA	1	178,000	178
Process Water Gravity	EA	1	177,000	177
Water Raw & Potable	EA	1	97,000	97
Bypass Road	SY	17,015	2.47	42
Information Systems	LS	-	-	1
			Total	1,602

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

ECS washrack introduces a great deal of sand and oil into the sanitary sewage system. Its low pressure/volume water system precludes removal of grit from exposed drive train components. The prevailing soils on Fort McCoy, being derived from Glauconite, are highly abrasive.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a continued loss of training time and high vehicle maintenance costs will continue due to the current inability to remove Fort McCoy's highly abrasive soil particles from tracked vehicles. A significant number of units will leave the installation with muddy vehicles, as some units choose to drive their muddy vehicles to their home areas rather than endure long waiting lines at the end of their annual training tours. Finally, the sanitary sewage treatment plant will continue to incur high operation and maintenance costs as a result of the existing washing facility's inability to effectively remove sand and oil from the sewer system.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Status Quo. Life cycle costs for both alternatives were compared on a net present value basis, as calculated as a ten percent discount rate. New Construction ($10,604 K) is recommended as more cost effective than Status Quo ($20,089 K).

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jun 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 95

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort McCoy, Wisconsin

4. PROJECT TITLE Central Wash Facility	5. PROJECT NUMBER 8797

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 150

(b) All Other Design Costs 76

(c) Total Cost 226

(d) Contract 179

(e) In-house 47

(4) Construction Start .... Jan 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DD FORM 1 DEC 76 1391C PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort McCoy, Wisconsin	4.PROJECT TITLE Central Fuel Storage Facility

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 124	7.PROJECT NUMBER 12281	8.PROJECT COST ($000) Auth 5,500 Approp 5,500

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,683
Pump House	SF	1,200	132.50	(159)
Control Building for AC Fuel	SF	600	150.00	(90)
Guard House	SF	150	113.33	(17)
Mogas Fuel Storage	GA	100,000	1.16	(116)
Diesel Fuel Storage	GA	300,000	1.16	(348)
See Cost Estimates (Continued)				(2,953)
Supporting Facilities				1,262
Electric Service	LS	-	-	(80)
Water, Sewer & Gas	LS	-	-	(117)
Paving, Walks, Curbs & Gutters	LS	-	-	(86)
Storm Drainage	LS	-	-	(141)
Site Improvement (418) Demolition (408)	LS	-	-	(826)
Information Systems	LS	-	-	(12)
Subtotal				4,945
Contingency (5.00%)				247
Total Contract Cost				5,192
Supervision, Inspection & Overhead (6.00%)				312
Total Request				5,504
Total Request (Rounded)				5,500
Installed Equipment - Other Appropriations				(16)

10.Description of Proposed Construction Construct facilities for receiving, storing and dispensing diesel fuel, motor gasoline (MOGAS), and heating fuel. Primary facilities will consist of storage tanks, piping, pumps, and operations shelter. Install an intrusion detection system (IDS). Also construct an aircraft fuel storage facility at the Fort McCoy Army Airfield. This facility will contain four 20,000-gallon underground jet fuel (JP-4) storage tanks with a control building with IDS, four hot-fuel dispensing points, piping, cathodic protection, pumps, fire protection and alarm systems, and security fencing. Supporting facilities include utilities, fire protection and alarm systems, paving, walks, curbs and gutters, spill containment, information systems, and site improvements. Remove buried tanks, buried pipelines and hardstand. Heating will be provided by a self-contained system for the control building. Demolish eight buildings (1,185 SF).

11. REQUIREMENT: 505,000 GA ADEQUATE: None SUBSTANDARD: 162,920 GA

PROJECT: Construct liquid fuels storage and dispensing facilities and, at the Fort McCoy Army Airfield, a facility for storage and dispensing of jet fuel (JP-4). (Current Mission)

REQUIREMENT: This project is required to provide for storage and dispensing of aviation, motor vehicle, and heating fuels for training and mobilization.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4. PROJECT TITLE Central Fuel Storage Facility		5. PROJECT NUMBER 12281

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Heating Fuel Storage	GA	25,000	3.40	85
Aircraft Fuel Storage	GA	80,000	3.18	254
Various Pumps and Piping	LS	–	–	205
Piping (Contonment Area)	LF	10,025	31.72	318
Piping (Aircraft Fuel)	LF	6,465	135.19	874
Oil/Water Seperat. & Waste Drain	LS	–	–	172
Concrete Roads	SY	14,760	50.20	741
Concrete Apron for Aircraft Fuel	SY	1,625	62.77	102
Fencing	LF	2,320	21.12	49
Electrical Service (Conton. Area	LS	–	–	145
Information Systems (Primary)	LF	980	8.16	8
			Total	2,953

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
The permanent on-site fuel storage at the airfield is required to increase training time, assure a dependable fuel supply, increase fuel handling efficiency, and reduce exposure of the public to safety hazards.

CURRENT SITUATION: Existing facilities for ground fuels were built in 1942 to service relatively light refueling requirements. Present storage capacity is only 125,000 gallons for vehicle fuels versus 1990 storage requirement of 400,000 gallons. Over 365,000 gallons of JP-4 fuel were dispensed annually at Fort McCoy Airfield in FY 85, 86, and 87. Extensive use of borrowed tankers has provided sufficient storage capacity to accommodate surges in demand, but any failure of the system would curtail annual training and cause unacceptable delays. All buried pipe and tanks have deteriorated to the extent that serious environmental damage to the ground water and to Tarr Creek (a Class 1 trout stream) could occur at any time. Most piping has been abandoned due to irreparable leaks. The refueling system is labor intensive and has inaccurate volume monitoring, long waiting lines and an awkward traffic pattern. Fort McCoy is also the primary aviation training facility for 509 aircraft. US Air Force and Marine Corps units also use this airfield, but there are no installed fuel storage and dispensing facilities at the airfield. Refueling is accomplished with 1,200-gallon fuel trucks which obtain their fuel from 5,000-gallon truck tankers parked on the airfield, which are driven to Volk Field for reloading. The parked 5,000-gallon tankers expose the airfield to a high risk of accidental or intentional interruption as they are readily accessible from the adjacent public highway. Tankers can transport approximately 20 percent of the fuel that can normally be carried by commercial tanker trucks. Therefore, public highway users are exposed to five times the risk of an accident with an Army tanker compared to the risk involved with commercial fuel tankers.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort McCoy, Wisconsin

4. PROJECT TITLE Central Fuel Storage Facility	5. PROJECT NUMBER 12281

11. REQUIREMENT: (Continued)

IMPACT IF NOT PROVIDED: If this project is not provided, potential environmental degradation and the inability to support the infantry division, three separate brigades and other units who routinely conduct annual training or mobilization exercises will continue. Labor intensive fuel handling, poor accountability, inadequate security, awkward traffic patterns and visual blight will continue. The airfield will continue to provide an inadequate level of support to Fort McCoy's training mission. Delays in training exercises will be perpetuated due to the slow and cumbersome method of refueling aircraft at the airfield or by necessitating aircraft to refuel at Volk Field (25 miles away) or at LaCrosse (38 miles away). Security problems and safety hazards will persist. Mobilization requirements for fuel storage and aircraft refueling will remain unfulfilled.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:
(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 275
(b) All Other Design Costs 90
(c) Total Cost 365
(d) Contract 0
(e) In-house 365

(4) Construction Start .... Jan 91
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Fort McCoy, Wisconsin

4. PROJECT TITLE Central Fuel Storage Facility	5. PROJECT NUMBER 12281

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	16
		TOTAL	16

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Fort McCoy, Wisconsin	4.PROJECT TITLE Cold Storage Warehouse

5.PROGRAM ELEMENT 22696A	6.CATEGORY CODE 432	7.PROJECT NUMBER 18959	8.PROJECT COST ($000) Auth 5,000 Approp 5,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,732
Cold/Dry Storage Facility	SF	45,000	82.20	(3,699)
IDS Installation	LS	–	–	(24)
Information Systems	LS	–	–	(9)
Supporting Facilities				747
Electric Service	LS	–	–	(161)
Water, Sewer & Gas	LS	–	–	(159)
Paving, Walks, Curbs & Gutters	LS	–	–	(120)
Storm Drainage	LS	–	–	(9)
Site Improvement (154) Demolition (141)	LS	–	–	(295)
Information Systems	LS	–	–	(3)
Subtotal				4,479
Contingency (5.00%)				224
Total Contract Cost				4,703
Supervision, Inspection & Overhead (6.00%)				282
Total Request				4,985
Total Request (Rounded)				5,000
Installed Equipment - Other Appropriations				(148)

10.Description of Proposed Construction Construct a cold/dry storage warehouse to include temperature and humidity controlled areas, administration, receiving and issuing areas, break, training and conference area, and install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, access road, vehicle maneuvering and parking areas, paving, walks, curbs and gutters, storm drainage, and site improvements. Heating will be provided by a self-contained, gas-fired system. Air conditioning (4 tons for the administration area only) will be provided by a self-contained system. Demolish one building (20,805 SF).

11. REQUIREMENT: 45,000 SF ADEQUATE: None SUBSTANDARD: 56,805 SF

PROJECT: Construct a cold storage warehouse. (Current Mission)

REQUIREMENT: This project is required to provide a cold storage warehouse facility to serve the subsistence needs of permanently assigned troops and approximately 120,000 rotational troops per year. Since Department of Defense regulations require that the facility maintain a 30-day supply of perishable foods, large quantities of ice must be used for preserving perishable meats and vegetables. Approximately one million pounds of ice are used from May through September each year. The proposed facility must also provide

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4. PROJECT TITLE Cold Storage Warehouse		5. PROJECT NUMBER 18959

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
adequate, secure storage for a 45-day supply of non-perishable food. (A-Rations, Meals Ready to Eat (MRE) - Rations and T-Rations). During the three month peak training period, Fort McCoy uses 300 pallets of MRE and has a storage requirement of 420 pallets of T-Rations.

CURRENT SITUATION: The Troop Issue Subsistence Activity (TISA) mission is conducted from seven general purpose warehouses and one cold storage warehouse, all of which are temporary structures built in 1942. The structures' designs, sizes and locations are all grossly inadequate. Typical problems are inadequate interior drainage, uncleanable joints, inadequate temperature and humidity controls, cramped work spaces, structural deficiencies, inadequate load-bearing capacity and insufficient dock area. Structural failure has necessitated using rental refrigerated vans to store ice. The lack of on-site office space and the buildings' multiple locations result in improper supervision and administration. Though maintenance is an intensive, ongoing operation, the humid environment has caused sagging ceiling joists, bulging walls, settling floors and water-logged insulation throughout. The cost for maintaining acceptable interior temperatures in buildings not designed for temperature control remains more than double the cost for maintaining temperatures in equally-size contemporary buildings. Finally, the multiple and remote locations cause confusion among the trainees, and increased travel time and traffic volume through the post.

IMPACT IF NOT PROVIDED: If this project is not provided, continued use of the facility will maintain exposure of warehouse personnel to significant safety hazards and will maintain a health risk for the annual training and mobilizing personnel at the installation. Failure of this facility would virtually stop or drastically curtail training or mobilization. Continued dependence upon a facility which is impossible to sanitize, improperly designed for current food handling requirements and undersized for fulfilling current needs will perpetuate high food-handling labor costs, high exposure of employees and soldiers to illness and injury and high overall costs for the Army.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing New Construction to Modular Units. Life-cycle costs for each alternative were compared on a net present value basis, as calculated at a 10 percent discount rate. New Construction ($5,131 K) is recommended as more cost effective than Modular Units ($5,787 K).

12. SUPPLEMENTAL DATA:

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Fort McCoy, Wisconsin		
4.PROJECT TITLE Cold Storage Warehouse		5.PROJECT NUMBER 18959

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Mar 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications 255
(b) All Other Design Costs 74
(c) Total Cost 329
(d) Contract 0
(e) In-house 329

(4) Construction Start .... Jan 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	7
Materials Handling Equipment	OPA	91	140
Information Sys Eq	PROP	91	1
		TOTAL	148

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
US Various		Classified US Location (USVAR)				387
	30542	Classified Project		3,000	3,000	389
		SUBTOTAL Classified US Location PART I	$	3,000	3,000	
		* TOTAL MCA FOR US Various	$	3,000	3,000	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Locations(s) in Conus US Various	4. COMMAND Various US Army Major Commands-US	5. AREA CONSTRUCTION COST INDEX .01

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89......................................	0
C. AUTHORIZATION NOT YET IN INVENTORY...................................	43,186
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................	3,000
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	0
F. PLANNED IN NEXT THREE YEARS..	3,400
G. REMAINING DEFICIENCY...	0
H. GRAND TOTAL..	49,586

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
141	30542	Classified Project	3,000	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M	3,000		
		TOTAL	3,000		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE		
B. PLANNED NEXT THREE PROGRAM YEARS :		
179	Special Operations Training Complex	3,400
	SUBTOTAL PROJECTS OVER $1M	3,400
	TOTAL	3,400

10. MISSION OR MAJOR FUNCTIONS:

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Classified US Location, US Various	4. PROJECT TITLE Classified Project

5. PROGRAM ELEMENT 91212A	6. CATEGORY CODE 141	7. PROJECT NUMBER 30542	8. PROJECT COST ($000) Auth 3,000 Approp 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,695
Classified Project	LS	–	–	(2695)
Subtotal				2,695
Contingency (5.00%)				135
Total Contract Cost				2,830
Supervision, Inspection & Overhead (6.00%)				170
Total Request				3,000
Total Request (Rounded)				3,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction This project covers classified activities at various locations. Additional information concerning the requirements associated with this project will be provided to Congress during the review of Military Construction Army, Fiscal Year 1991, Authorization/Appropriation Request.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None

PROJECT: To be provided during Congressional review of MCA request. (Current Mission)

REQUIREMENT: To be provided during Congressional review of MCA request.

CURRENT SITUATION: To be provided during Congressional review of MCA request.

IMPACT IF NOT PROVIDED: To be provided during Congressional review of MCA request.

ADDITIONAL: To be provided during Congressional review of MCA request.

12. SUPPLEMENTAL DATA:
- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... N/A

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Classified US Location, US Various		
4. PROJECT TITLE Classified Project		5. PROJECT NUMBER 30542

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A

(c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A

(d) Design Complete Date .... N/A

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications .... ______

(b) All Other Design Costs .... ______

(c) Total Cost .... ______

(d) Contract .... ______

(e) In-house .... ______

(4) Construction Start .... N/A
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Germany		Germany Various (USAREUR)				393
		Giessen				
	14216	Tank Crew Combat Course		2,250	2,250	397
		Grafenwoehr				
	11657	Ready Building		3,500	3,500	400
	28389	Pave Tank Trail		1,630	1,630	403
	31320	Applied Instruction Facility		5,700	5,700	406
		Heilbronn				
	16203	Hardstand & Wash Facility		5,500	5,500	409
		Hohenfels				
	14215	Education Center Addition		610	610	412
	15703	Library Addition		550	550	415
	15817	Physical Fitness Training Center		3,350	3,350	418
	15818	Military Police Station Addition		1,300	1,300	420
	25237	Hardstand & Maintenance Sheds		4,350	4,350	423
		Kaiserslautern				
	24030	Missile Maintenance Shop		5,000	5,000	426
		Mannheim				
	29457	Vehicle Maintenance Sheds		7,600	7,600	429
		Various Sites				
	29459	Wartime Host Nation Support		2,500	2,500	432
	31718	Record Fire Ranges		4,053	4,053	436
		Vilseck				
	5210	Hardstand/Tactical Equipment Shop & Sheds		8,500	8,500	439
	5248	Fire Station		1,250	1,250	442
	5249	Chapel Center/Religious Education Fac		3,300	3,300	445
	5254	Multi-Purpose Auditorium Facility		2,550	2,550	448
		SUBTOTAL Germany Various PART I	$	63,493	63,493	
		* TOTAL MCA FOR Germany	$	63,493	63,493	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Germany Various Germany	4. COMMAND US Army Europe and Seventh Army	5. AREA CONSTRUCTION COST INDEX .00

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89......................................	0
C. AUTHORIZATION NOT YET IN INVENTORY....................................	1,149,751
D. AUTHORIZATION REQUESTED IN THIS PROGRAM...............................	63,495
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM...........................	198,350
F. PLANNED IN NEXT THREE YEARS...	2,195,590
G. REMAINING DEFICIENCY..	552,050
H. GRAND TOTAL...	4,159,236

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
730	05248	Fire Station	1,250	06/88	01/90
740	05254	Multi-Purpose Auditorium Facility	2,550	10/86	09/90
141	11657	Ready Building	3,500	06/86	03/90
179	14216	Tank Crew Combat Course	2,250	05/89	07/90
740	15817	Physical Fitness Training Center	3,350	01/87	10/89
730	15818	Military Police Station Addition	1,300	07/88	10/90
852	16203	Hardstand & Wash Facility	5,500	09/88	12/89
212	24030	Missile Maintenance Shop	5,000	04/89	09/90
141	29459	Wartime Host Nation Support	2,500	04/89	07/89
442	29457	Vehicle Maintenance Sheds	7,600	05/85	07/89
171	31320	Applied Instruction Facility	5,700	07/89	10/90
214	5210	Hardstand/Tactical Equipment Shop & Sheds	8,500	07/88	02/90
730	5249	Chapel Center/Religious Education Fac	3,300	05/89	09/90
214	25237	Hardstand & Maintenance Sheds	4,350	07/88	12/89
851	28389	Pave Tank Trail	1,632	02/90	09/90
179	31718	Record Fire Ranges	4,053	07/86	08/87
		SUBTOTAL PROJECTS OVER $1M	62,335		
740	14215	Education Center Addition	610	01/87	11/88
740	15703	Library Addition	550	07/88	08/90
		SUBTOTAL PROJECTS $1M & LESS	1,160		
		TOTAL	63,495		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Germany Various Germany

9. FUTURE PROJECTS: (...CONTINUE)

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92):		
441	Warehouse	5,500
214	Hardstand/Tactical Equipment Shop & Sheds	14,800
214	Hardstand/Tactical Equipment Shop	9,600
852	Hardstand & Wash Facility	3,550
740	Child Development Center	3,350
214	Vehicle Maintenance Shop/Hardstand	4,700
852	Hardstand & Maintenance Shop	5,100
141	Crime Laboratory Modernization/Addition	5,400
852	Hardstand & Wash Facility	5,400
214	Hardstand & Maintenance Shops	13,600
214	Hardstand & Maintenance Sheds	11,000
800	Utilities Modernization	4,900
740	Child Development Center	1,450
211	Aviation Unit Maintenance Hangar	13,200
730	Chapel/Religious Education Facility	2,650
422	Ammunition Storage	3,200
740	Child Development Center	1,300
211	Aviation Unit Maintenance Hangar	8,400
442	Vehicle Maintenance Sheds & Hardstands	2,150
179	Bradley Range Upgrade	3,650
179	Range Modernization	6,800
214	Hardstand & Maintenance Sheds	2,800
141	Operations Facility	1,200
179	Machine Gun Transition Range	10,600
214	Vehicle Maintenance Facility	11,200
832	Upgrade Sewer System	9,800
141	Wartime Host Nation Support	4,500
442	Maintenance Warehouse	2,550
179	Record Fire Range	9,600
211	Aircraft Maintenance Hangar	11,000
211	Aircraft Painting Shop	5,400
	SUBTOTAL PROJECTS OVER $1M	198,350
	TOTAL	198,350

10. MISSION OR MAJOR FUNCTIONS:

Support of US Army, Europe and Seventh Army

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Friedberg Trng & Stor Area Giessen, Germany	4. PROJECT TITLE Tank Crew Combat Course

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 179	7. PROJECT NUMBER 14216	8. PROJECT COST ($000) Auth 2,250 Approp 2,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,007
Range Building	SF	3,000	58.66	(176)
Generator Shed	EA	1	18,620	(19)
Observation Tower	EA	1	179,689	(180)
Roads	SY	44,061	23.14	(1,019)
Battle Positions	EA	40	4,000	(160)
See Cost Estimates (Continued)				(453)
Supporting Facilities				2
Electric Service	LS	–	–	(2)
Subtotal				2,009
Contingency (5.00%)				100
Total Contract Cost				2,109
Supervision, Inspection & Overhead (6.50%)				137
Total Request				2,246
Total Request (Rounded)				2,250
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a Tank Platoon Battle Run. Primary facilities include construction of all items within the perimeter of the range complex and include 40 battle positions with pads and berms, road system with drainage, range building with classroom, observation tower, warehouse, generator shed, electric service, storm drainage, site improvements, tree cutting, landscaping, and grading. Supporting facilities include all construction outside the perimeter of the range. Targetry will be furnished by an armored division.

11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a Tank Crew Combat Course. (Current Mission)

REQUIREMENT: This project is required to provide an armored division's units with a training range capable of supporting their nearly 700 armored vehicles at the existing unimproved local training area. It will accommodate the division's Bradley and modified Abrams armored combat vehicles and is needed to permit year-round all-weather day and night training meeting established Army standards. The hard surfaced roads, battle positions with pads and berms, and a drainage system to minimize erosion and mud are needed to provide the armored division units a home station training capability to maintain combat readiness.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Friedberg Trng & Stor Area, Giessen, Germany		
4.PROJECT TITLE Tank Crew Combat Course		5.PROJECT NUMBER 14216

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Range Storm Drainage	LS	-	-	142
Range Site Work	LS	-	-	297
Information Systems	LS	-	-	14
			Total	453

CURRENT SITUATION: Friedberg Training Area has the only available US controlled land in the armored division area suitable and large enough to train tank and mechanized infantry sections. Since this site is a bare strip of land without an on-site road network, repeated use by tracked armored vehicles cause extremely muddy conditions which seriously hampers training. Vehicle clean-up afterwards consumes far too much valuable training time.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on unit training. Mechanized and armor units will not be able to attain the degree of proficiency desired for combat. Continued use of the unimproved range will increase the erosion and drainage problems and will continue to waste soldiers' training time cleaning vehicles. In addition, training will be hampered in wet weather and combat readiness will continue to be adversely affected.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been performed comparing New Construction to Status Quo. Life cycle costs for each alternative were compared on a net present value basis, as calcualted at a 10 percent discount rate. New Construction ($3,277 K) is recommended, as more cost effective than Status Quo ($6,491 K). This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... May 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 54
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jul 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Friedberg Trng & Stor Area, Giessen, Germany

4.PROJECT TITLE Tank Crew Combat Course	5.PROJECT NUMBER 14216

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	49
(b) All Other Design Costs	179
(c) Total Cost	228
(d) Contract	160
(e) In-house	68

(4) Construction Start .... Jul 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Border Camp May Grafenwoehr, Germany	4. PROJECT TITLE Ready Building

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 141	7. PROJECT NUMBER 11657	8. PROJECT COST ($000) Auth 3,500 Approp 3,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,609
Ready Building	SF	12,400	95.00	(1,178)
Dining Facility	SF	3,700	176.90	(655)
Heating Plant	SF	500	214.14	(107)
Standby Generator	KV	170	650.00	(111)
IDS Installation	LS	-	-	(29)
See Cost Estimates (Continued)				(529)
Supporting Facilities				536
Electric Service	LS	-	-	(43)
Water, Sewer & Gas	LS	-	-	(63)
Steam, Chilled Water & Heat Distribution	LS	-	-	(27)
Paving, Walks, Curbs & Gutters	LS	-	-	(41)
Storm Drainage	LS	-	-	(52)
Site Improvement (179) Demolition (84)	LS	-	-	(263)
Information Systems	LS	-	-	(47)
Subtotal				3,145
Contingency (5.00%)				157
Total Contract Cost				3,302
Supervision, Inspection & Overhead (6.50%)				215
Total Request				3,517
Total Request (Rounded)				3,500
Installed Equipment - Other Appropriations				(7)

10. Description of Proposed Construction Construct a ready building, a dining facility to accommodate a total of 94 persons, a central heating plant, water storage tank with pump house, personnel billeting, arms room, storage area, briefing and operations area and emergency generator station. Install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, information systems, fire protection and alarm systems, storm drainage, transformer upgrade, and site improvements. Demolish nine buildings (20,559 SF). Mechanical ventilation: 55,000 CFM.

11. REQUIREMENT: 16,100 SF ADEQUATE: None SUBSTANDARD: 16,650 SF

PROJECT: Construct a ready building, a dining facility and a central heating plant. (Current Mission)

REQUIREMENT: This project is required to provide adequate dining, ready building and billet space including an arms room, storage area, briefing and operations area and communications room for a population of four officers and 90 enlisted personnel. The construction of this project is of high tactical importance and is required to support the mission as a tripwire position and for surveillance of the Czechoslovakian border.

CURRENT SITUATION: The four buildings used for dining, billeting and

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Border Camp May, Grafenwoehr, Germany		
4.PROJECT TITLE Ready Building		5.PROJECT NUMBER 11657

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Information Systems	LS	-	-	28
Water Storage Tank w/Pump House	LS	-	-	501
			Total	529

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
operations are temporary structures built in 1974 with an original life expectancy of five years. Settling foundations are separating the interior walls from the ceilings, heavy snow and rain causes the flat roofs to leak, the latrine walls are rotting due to poor ventilation, and the exterior metal siding is separating. Snow must be removed during storms to prevent roof collapse. Moreover, major repair parts for these buildings are unavailable because the manufacturer is no longer in business. A fifth building was constructed in 1955 as a permanent masonry building while another building is a prefabricated metal hut erected by the unit. Due to severe weather conditions in this area (heavy snow falls), these two buildings are in deteriorated condition and major repair is uneconomical. The morale of soldiers and consequently the mission at Border Camp May suffers from the poor condition of these inadequate structures.
IMPACT IF NOT PROVIDED: If this project is not provided, the troops performing a vital border surveillance mission will be required to live in crowded and deteriorating billets. This will lower soldier morale and the soldiers' motivation to perform this important mission on the Czechoslovakian border. Soldiers are required to remain at the remote site for 30-45 days at a time. The existing billet, dining and ready building structures will continue to deteriorate and provide few of the amenities needed by soldiers at this remote site.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jun 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 93
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Mar 90

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Border Camp May, Grafenwoehr, Germany		
4. PROJECT TITLE Ready Building		5. PROJECT NUMBER 11657

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	78
(b) All Other Design Costs	196
(c) Total Cost	274
(d) Contract	166
(e) In-house	108

(4) Construction Start .... Jun 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	7
		TOTAL	7

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Grafenwoehr Training Area Grafenwoehr, Germany	4.PROJECT TITLE Pave Tank Trail

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 851	7.PROJECT NUMBER 28389	8.PROJECT COST ($000) Auth 1,630 Approp 1,630

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,459
Bituminous Concrete Pavement	SY	239,200	6.10	(1,459)
Subtotal				1,459
Contingency (5.00%)				73
Total Contract Cost				1,532
Supervision, Inspection & Overhead (6.50%)				98
Total Request				1,630
Total Request (Rounded)				1,630
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction This project shall include the reprofiling and paving with bituminous concrete 12.5 miles of existing tank trails.

11. REQUIREMENT: 630,156 SY ADEQUATE: 32,156 SY SUBSTANDARD: 598,000 SY

PROJECT: Pave tank trails with asphalt. (Current Mission)

REQUIREMENT: This project is required to provide asphalt paving for the most utilized tank trail in the training area. A secondary, but just as important requirement, is to reduce pollution of the environment created by the continuous pulverization of the gravel surface course material. This north tank trail provides access to most of the ranges at the training area. During 1982-1984, the Army performed extensive modernization of these ranges. The improvements have resulted in greatly increased usage of the ranges and consequently the tank trails.

CURRENT SITUATION: Currently, the tank trails are composed of a well-compacted base with a graveled surface course which requires continuous maintenance in order to keep them in a usable condition. This maintenance consists of continually leveling the surface course and adding additional gravel to replenish that which is pulverized by the tracked vehicles. During FY 1988 this replenishment required 537,253 tons of crushed rock. About 50 percent of this material is contractor furnished with the remaining portion

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Grafenwoehr Training Area, Grafenwoehr, Germany

4. PROJECT TITLE Pave Tank Trail	5. PROJECT NUMBER 28389

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
produced by two on-post quarry plants. Eighteen graders and 20-25 dump trucks are continuously performing this task. The heavy tracked vehicles pulverize the newly laid gravel after only two weeks of heavy usage. This continual process results in very fine particles which, when washed away by rain, enter the local streams, wetlands, and ponds on and off US controlled lands. These ecologically sensitive areas are consequently being suffocated by this sedimentation. During periods of continuous rains, which occur very often, farmland and drainage structures off-post are becoming inundated by the accumulation of these fine particles. Of additional great concern is the blinding dust which is created by both tracked and wheeled vehicles during dry weather periods. This serious hazard has resulted in numerous accidents with loss of both vehicles and lives. The north tank trail, if paved, would resolve a political issue being generated by military traffic causing accidents on public highways. The military traffic could be moved from public route to the parallel tank trail.

IMPACT IF NOT PROVIDED: If this project is not provided, over $2 million dollars annually will continue to be spent to maintain the tank trails. The product of this investment will continue to be ground-up and washed into sensitive ecological areas or blown into the air both having a very negative impact on the environment and the safety of all who travel thru the training area.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An Economic Analysis is required and has been prepared by the Director Resource Management and will be submitted. This project is not eligible for Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Feb 90
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 0
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90

3.INSTALLATION AND LOCATION

Grafenwoehr Training Area, Grafenwoehr, Germany

4.PROJECT TITLE Pave Tank Trail	5.PROJECT NUMBER 28389

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)

	($000)
(a) Production of Plans and Specifications	26
(b) All Other Design Costs	78
(c) Total Cost	104
(d) Contract	0
(e) In-house	104

(4) Construction Start .... Mar 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION East Camp Grafenwoehr Grafenwoehr, Germany	4.PROJECT TITLE Applied Instruction Facility

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 171	7.PROJECT NUMBER 31320	8.PROJECT COST ($000) Auth 5,700 Approp 5,700

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				4,606
SIMNET Training Facility	SF	30,303	149.90	(4,542)
Information Systems	LS	-	-	(64)
Supporting Facilities				447
Electric Service	LS	-	-	(180)
Water, Sewer & Gas	LS	-	-	(73)
Steam, Chilled Water & Heat Distribution	LS	-	-	(3)
Paving, Walks, Curbs & Gutters	LS	-	-	(66)
Storm Drainage	LS	-	-	(74)
Site Improvement	LS	-	-	(47)
Information Systems	LS	-	-	(4)
Subtotal				5,053
Contingency (5.00%)				253
Total Contract Cost				5,306
Supervision, Inspection & Overhead (6.50%)				345
Total Request				5,651
Total Request (Rounded)				5,700
Installed Equipment - Other Appropriations				(22,665)

10.Description of Proposed Construction Construct a Simulations Networking (SIMNET) Training facility consisting of a simulator area (23,040 SF) and an administrative, classroom, and maintenance area (7,263 SF). Construct a 1,260 KVA transformer station. Connect to energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, exterior lighting, parking, loading area, walks, curbs and gutters, access road, sanitary sewer, storm drainage, information systems, and site improvements. Low temperature hot water for heat will be provided by an on-hand containerized boiler until an FY 93 MCA heating upgrade project provides distribution piping to connect the facility to district heat. Relocation of existing sanitary sewer line. Mechanical Ventilation: 150,000 CFM.

11. REQUIREMENT: 71,436 SF ADEQUATE: 41,133 SF SUBSTANDARD: None

PROJECT: Construct a Simulations Networking (SIMNET) Training facility. (Current Mission)

REQUIREMENT: This project is required to house the Simulations Networking (SIMNET) training device, provide classroom space for 220 soldiers who will use this training device, and provide administrative, logistical, and maintenance areas for contracted personnel who will support/administer this site. The SIMNET will consist of 72 vehicle simulators and 16 computer

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION East Camp Grafenwoehr, Grafenwoehr, Germany		
4. PROJECT TITLE Applied Instruction Facility		5. PROJECT NUMBER 31320

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
emulators that will allow personnel of a Battalion/Task Force the opportunity to conduct battalion/tactical field (Bn/TF) operations in a simulator computer generated environment. SIMNET is used to train maneuver, tactics and command and control at levels from platoon to battalion. The fielding of this device in Europe will help alleviate training shortfalls and environmental problems. It will provide commanders at all levels the opportunity to train combat elements without concern for maneuver damage or community complaints (i.e. noise pollution). The facility will provide a safer environment in which to train, practice operations which currently cannot be trained due to safety concerns, and save fuel, ammunition and maintenance spare parts. The facility will enhance and complement follow-on live maneuver training and testing conducted at Hohenfels Training Area and Combat Maneuver Training Complex (CMTC). This facility should allow for expansion as it will also serve as the site for the follow-on system, the Close Combat Tactical Trainer (CCTT), which will provide closer simulation of actual vehicles and contain more simulators (134) than the SIMNET system. Fielding SIMNET and CCTT will enhance maneuver skills for US Army Europe units at a time when the training of conventional forces is a major concern. Fielding of this device is scheduled for FY 93, while the Bn/TF set at Grafenwoehr is due to be completed by FY 98.

CURRENT SITUATION: Currently there are no facilities available on or off-post that will satisfy requirements for training which cannot now be accomplished. Training Load Data: 220 soldiers daily, five days per week, 210 hours per month.

IMPACT IF NOT PROVIDED: If this project is not provided, US Army Europe Bn/TF units will not be able to conduct maneuver, tactical, and command & control training with all elements, attachments and personnel. In addition, over $ 41.3 million in training devices must be stored and cannot be used for training.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jul 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Oct 90

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION East Camp Grafenwoehr, Grafenwoehr, Germany		
4. PROJECT TITLE Applied Instruction Facility		5. PROJECT NUMBER 31320

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3)	Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a)	Production of Plans and Specifications	122
(b)	All Other Design Costs	304
(c)	Total Cost	426
(d)	Contract	255
(e)	In-house	171

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
72 Simulators	RDTE	91	22000
MacIntosh Comp	RDTE	91	19
2 Masscomp Comp	RDTE	91	60
Computer Software	RDTE	91	3
8 Tech Tool Boxes	RDTE	91	2
1 Site Tool Box	RDTE	91	1
Simulator Software	RDTE	91	145
AC	RDTE	91	226
Electrical Work	RDTE	91	209
		TOTAL	22,665

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Wharton Barracks Heilbronn, Germany	4. PROJECT TITLE Hardstand & Wash Facility

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 852	7. PROJECT NUMBER 16203	8. PROJECT COST ($000) Auth 5,500 Approp 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,670
Organizational Vehicle Parking	SY	30,345	37.24	(1,130)
POL Separator/Retention Basin	LS	–	–	(264)
Washrack (6-Position)	LS	–	–	(684)
Roads	SY	14,875	37.24	(554)
Storm Drainage Lines	LF	25,000	25.14	(628)
See Cost Estimates (Continued)				(410)
Supporting Facilities				1,280
Electric Service	LS	–	–	(241)
Water, Sewer & Gas	LS	–	–	(230)
Site Improvement (758) Demolition (42)	LS	–	–	(800)
Information Systems	LS	–	–	(9)
Subtotal				4,950
Contingency (5.00%)				248
Total Contract Cost				5,198
Supervision, Inspection & Overhead (6.50%)				338
Total Request				5,536
Total Request (Rounded)				5,500
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct 6-position washrack, hardstand, deployment equipment storage building, access roads, petroleum, oil, and lubricants (POL) separators, and retention basin. Supporting facilities include utilities, electric service, exterior lighting, paving, retaining wall, fire protection and alarm systems, security fencing and gates, storm drainage, information systems, and site improvements. Demolish hardstand (20,669 SY), three greaseracks and two washracks.

11. REQUIREMENT: 53,297 SY ADEQUATE: 21,885 SY SUBSTANDARD: 19,107 SY

PROJECT: Construct hardstands and a post washrack. (Current Mission)

REQUIREMENT: This project is required to accommodate a Corps Mobile Subscriber Equipment (MSE) Battalion stationing and additional MSE vehicle fielding for an existing unit at this installation, scheduled to arrive in FY 91.

CURRENT SITUATION: At present more than one third of all available organizational vehicle parking is provided on gravel, grass or mud surfaces. The remaining organizational parking is on bituminous concrete parking areas with insufficient storm drainage and POL separation systems and no security lighting. Existing parking areas are either rutted, muddy or crowded. Safety distances for POL trucks cannot be fully maintained. Washing the equivalent

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Wharton Barracks, Heilbronn, Germany		
4.PROJECT TITLE Hardstand & Wash Facility		5.PROJECT NUMBER 16203

9: Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Deployment Equipment Storage	SF	9,800	41.00	402
Information Systems	LS	-	-	8
			Total	410

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

of two battalions of equipment is carried out with small garden hose wash platforms. This causes vehicle washing to be a time consuming procedure which cannot be carried out properly. Negative environmental impacts are caused due to lack of POL separators.

IMPACT IF NOT PROVIDED: If this project is not provided, substandard conditions will continue to exist. Stationing of the new signal battalion and the fielding of additional new equipment for units at this installation will make the situation worse as too little adequate space is available for parking. Vehicle washing will continue to be inefficient. Soil contamination will continue due to lack of impervious surface and POL separation. Inadequate surface and unsafe driving and parking conditions will result in damage to vehicles and equipment. This will hamper mission effectiveness and combat readiness will suffer.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Sep 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Dec 89

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	121
(b) All Other Design Costs	303

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Wharton Barracks, Heilbronn, Germany		
4. PROJECT TITLE Hardstand & Wash Facility		5. PROJECT NUMBER 16203

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued)

	($000)
(c) Total Cost	424
(d) Contract	256
(e) In-house	168

(4) Construction Start .... May 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Hohenfels Training Area Hohenfels, Germany	4. PROJECT TITLE Education Center Addition

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 740	7. PROJECT NUMBER 14215	8. PROJECT COST ($000) Auth 610 Approp 610

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				423
Battalion ACES Facility Addition	SF	3,607	112.40	(405)
Information Systems	LS	–	–	(18)
Supporting Facilities				126
Electric Service	LS	–	–	(3)
Water, Sewer & Gas	LS	–	–	(10)
Paving, Walks, Curbs & Gutters	LS	–	–	(35)
Site Improvement	LS	–	–	(46)
Information Systems	LS	–	–	(7)
EMCS Connection	LS	–	–	(25)
Subtotal				549
Contingency (5.00%)				27
Total Contract Cost				576
Supervision, Inspection & Overhead (6.50%)				38
Total Request				614
Total Request (Rounded)				610
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design addition to the Army Continuing Education System (ACES) Center, to include areas for administration, offices, classrooms, Military Occupation Speciality (MOS) library, and Career and Advisory Counseling (CAC) Section. Install energy flow and water meters along with energy monitoring control system (EMCS) connection. Supporting facilities include utilities, electric service, information systems, storm drainage, fire protection and alarm systems, paving, walks, curbs and gutters, and site improvements. Heating will be provided by connection to existing District Heat systems. Access for the handicapped will be provided. Mechanical ventilation: 18,000 CFM.

11. REQUIREMENT: 10,020 SF ADEQUATE: 6,413 SF SUBSTANDARD: None

PROJECT: Construct a standard-design addition to the current Army Continuing Education Center facility. (Current Mission)

REQUIREMENT: This project is required to support the restationing of a mechanized infantry battalion at Hohenfels Training Area (HTA) in 1989. Due to the restationing of this battalion, the permanent troop population increases to 1,240, necessitating this expansion. The Combat Maneuver Training Complex (CMTC) will provide an integrated training package, similar to the National Training Center, Fort Irwin, California, which will allow

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4. PROJECT TITLE Education Center Addition		5. PROJECT NUMBER 14215

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
units to gain maximum training experience during CMTC rotations. Stationing of permanent opposing force (OPFOR) battalion at CMTC is a critical element in the overall training package because it will provide realistic, stressful training and a standard against which all US Army Europe (USAREUR) units can measure their combat skills.

CURRENT SITUATION: Current general education instruction is conducted in a building which does not meet the authorized space requirements of 10,020 SF. Existing facility is fully utilized by personnel presently assigned to the installation.

IMPACT IF NOT PROVIDED: If this project is not provided, essential education services will be inadequate to meet the future requirements of HTA. This will result in the continuation of inadequate maneuver training for all USAREUR units, preclude realization of full combat capabilities of USAREUR units, and adversely affect USAREUR readiness.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding. This facility will not be used by units of the Federal Republic of Germany units.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jan 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Nov 88

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Germany Various

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	14
(b) All Other Design Costs	44
(c) Total Cost	58
(d) Contract	38
(e) In-house	20

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Hohenfels Training Area, Hohenfels, Germany

4. PROJECT TITLE Education Center Addition	5. PROJECT NUMBER 14215

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Hohenfels Training Area Hohenfels, Germany	4. PROJECT TITLE Library Addition

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 740	7. PROJECT NUMBER 15703	8. PROJECT COST ($000) Auth 550 Approp 550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				383
Library Addition	SF	2,922	98.00	(286)
Modernize Building	SF	3,328	25.73	(86)
Information Systems	LS	-	-	(11)
Supporting Facilities				112
Electric Service	LS	-	-	(45)
Water, Sewer & Gas	LS	-	-	(14)
Paving, Walks, Curbs & Gutters	LS	-	-	(13)
Storm Drainage	LS	-	-	(7)
Site Improvement	LS	-	-	(10)
Information Systems	LS	-	-	(9)
EMCS Connection	LS	-	-	(14)
Subtotal				495
Contingency (5.00%)				25
Total Contract Cost				520
Supervision, Inspection & Overhead (6.50%)				34
Total Request				554
Total Request (Rounded)				550
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct an addition to and modernize the existing main library to include book shelf space, administrative offices, restrooms, reading areas, and a music appreciation area. Connect to energy monitoring and control system (EMCS). Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, paving, storm drainage, and site improvements. Access for the handicapped will be provided. Heating will be provided by connection to existing District Heat system. Mechanical ventilation: 15,000 CFM.

11. REQUIREMENT: 6,250 SF ADEQUATE: 3,328 SF SUBSTANDARD: None

PROJECT: Construct an addition to and modernize the main library. (Current Mission)

REQUIREMENT: This project is required to support the quality of life for the existing and projected population of the Hohenfels Training Area. This project will provide a facility in which literary, musical, artistic and reference materials are kept and made available to military and civilian personnel and their family members. The total requirement for library space includes the impact of the Opposing Force (OPFOR) battalion restationing.

CURRENT SITUATION: The existing library (3,328 SF) was originally constructed in 1953 as a troop billet. In 1955 it was converted to a

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		JAN 90

3. INSTALLATION AND LOCATION

Hohenfels Training Area, Hohenfels, Germany

4. PROJECT TITLE	5. PROJECT NUMBER
Library Addition	15703

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued) temporary dependent school and in 1967 to its present use. For these reasons the existing office and administrative space is crowded. The bathroom is used for storage due to lack of adequate space.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be inadequate opportunities for soldiers and family members to pursue activities which contribute to individual self development, harmonious family life, and the positive morale of all units to be stationed at Hohenfels Training Area. Library service space will be inadequate to meet the future requirements and adequate support for the OPFOR battalion. This could result in the continuation of inadequate maneuver training, and adversely effect US Army Europe (USAREUR) readiness.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jul 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	50
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Aug 90

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	12
(b) All Other Design Costs	48
(c) Total Cost	60
(d) Contract	43
(e) In-house	17

(4) Construction Start Jul 91 (month & year)

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4. PROJECT TITLE Library Addition		5. PROJECT NUMBER 15703

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Hohenfels Training Area Hohenfels, Germany	4. PROJECT TITLE Physical Fitness Training Center

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 740	7. PROJECT NUMBER 15817	8. PROJECT COST ($000) Auth 3,350 Approp 3,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,681
Physical Fitness Training Center	SF	26,600	98.69	(2,625)
Information Systems	LS	-	-	(56)
Supporting Facilities				296
Electric Service	LS	-	-	(37)
Water, Sewer & Gas	LS	-	-	(22)
Steam, Chilled Water & Heat Distribution	LS	-	-	(4)
Paving, Walks, Curbs & Gutters	LS	-	-	(51)
Storm Drainage	LS	-	-	(38)
Site Improvement	LS	-	-	(99)
Information Systems	LS	-	-	(3)
EMCS Connection	LS	-	-	(42)
Subtotal				2,977
Contingency (5.00%)				149
Total Contract Cost				3,126
Supervision, Inspection & Overhead (6.50%)				203
Total Request				3,329
Total Request (Rounded)				3,350
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design physical fitness training center with multi-purpose court, handball courts, exercise room. portable boxing ring, sauna, whirlpool, showers, lockers, office, laundry, and storage. Install utility meters along with energy monitoring and control system (EMCS) connection. Supporting facilities include utilities, electric service, fire protection and alarm systems, paving, walks, curbs and gutters, storm drainage, information systems, and site improvements. Heating will be provided by connection to existing District Heat system. Access for the handicapped will be provided.

11. REQUIREMENT: 68,010 SF ADEQUATE: 28,613 SF SUBSTANDARD: 14,289 SF

PROJECT: Construct a standard-design physical fitness training center. (Current Mission)

REQUIREMENT: This project is required for use by both the students attending the Basic Non-Commissioned Officers Course (BNCOC) and the opposing force (OPFOR) battalion scheduled for restationing at Hohenfels.

CURRENT SITUATION: The present facilities do not meet the requirements of this new restationed battalion and of the BNCOC students. They are only adequate for present permanent personnel; however, they are severely taxed when large numbers of US personnel are training at Hohenfels Training Area.

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4. PROJECT TITLE Physical Fitness Training Center		5. PROJECT NUMBER 15817

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
Physical training for soldiers of the BNCOC at Camp Poellnricht is currently conducted outside and is often adversely impacted by weather.
IMPACT IF NOT PROVIDED: If this project is not provided, the existing units will continue to be adversely impacted, and with the restationing of the OPFOR battalion to Hohenfels, present facilities will become totally inadequate. This will result in the continuation of inadequate maneuver training, preclude realization of full combat capabilities and adversely affect readiness.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Jan 87
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Oct 89

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Germany Various

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	72
(b) All Other Design Costs	170
(c) Total Cost	242
(d) Contract	141
(e) In-house	101

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Hohenfels Training Area Hohenfels, Germany	4.PROJECT TITLE Military Police Station Addition

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 730	7.PROJECT NUMBER 15818	8.PROJECT COST ($000) Auth 1,300 Approp 1,300

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				892
Police Station Addition	SF	7,855	73.00	(573)
Renovate Police Station	SF	7,005	40.43	(283)
Informations Systems	LS	-	-	(36)
Supporting Facilities				223
Electric Service	LS	-	-	(16)
Water, Sewer & Gas	LS	-	-	(35)
Steam, Chilled Water & Heat Distribution	LS	-	-	(7)
Paving, Walks, Curbs & Gutters	LS	-	-	(27)
Storm Drainage	LS	-	-	(6)
Site Improvement	LS	-	-	(62)
Information Systems	LS	-	-	(30)
EMCS Connection	LS	-	-	(40)
Subtotal				1,115
Contingency (7.50%)				84
Total Contract Cost				1,199
Supervision, Inspection & Overhead (6.50%)				78
Total Request				1,277
Total Request (Rounded)				1,300
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct an addition to and modernize the existing Provost Marshal Administration Building to include military police public service area, registration services area, operations office, investigation area, detention cells, lockers, showers and latrines. Connect to energy monitoring and control system (EMCS). Renovation includes structural, mechanical and electrical alterations to produce an efficient and functional facility. Supporting facilities include utilities, electric service, information systems, parking, fire protection and alarm systems, paving, storm drainage, fencing, exterior lighting, and site improvements. Access for the handicapped will be provided. Heating will be provided by a gas-fired district heat plant. Mechanical ventilation: 40,000 CFM.

11. REQUIREMENT: 18,460 SF ADEQUATE: None SUBSTANDARD: 7,005 SF

PROJECT: Construct an addition to and modernize the police station. (Current Mission)

REQUIREMENT: This project is required to provide a facility to house the military police activities including law enforcement, physical security, investigations, arrests and detention, registrations, permits, and licenses. Due to the restationing of a mechanized infantry battalion to Hohenfels Training Area (HTA), the present Provost Marshal staff will increase from 21

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4.PROJECT TITLE Military Police Station Addition		5.PROJECT NUMBER 15818

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) personnel to 35. Stationing of the permanent opposing force (OPFOR) battalion at Combat Maneuver Training Center (CMTC) is a critical element in the overall training package because it will provide realistic, stressful training and a standard against which all US Army Europe (USAREUR) units can measure their combat skills.

CURRENT SITUATION: Currently, the Military Police, Criminal Investigation Division, and the Provost Marshal are located in a small, inadequate building. Civilian service security guard commanders which are directly subordinate to the Provost Marshal are located in a dilapidated building one mile away. Control and management of these personnel by the Provost Marshal is severely hampered. The police attached to training units, usually numbering 26 individuals, are not provided with even minimal facilities as required by mission. Coordination between permanent personnel and these training units is adversely affected. The building is completely inadequate for a modern police force. Detention cells contain no lavatories or latrines. As a result, prisoners cannot be kept overnight. Private offices necessary for confidential communication are not available for all authorized personnel. There is no adequate room for secured file storage. The operations room is over-filled with equipment. Temporary detention cells in briefing rooms must be used for storage because no storage space is available.

IMPACT IF NOT PROVIDED: If this project is not provided, the military police mission at HTA will be hampered by inadequate facilities, and future requirements, centering on the restationing of the OPFOR battalion to Hohenfels, will not be met. Present unacceptable conditions will continue. The lack of training facilities for the unit's military police will remain a glaring deficiency. These conditions plus the lack of proper facilities required for the police mission can only result in a degradation of the training mission at Hohenfels.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jul 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	45
(c) Percent Complete As Of 01 October 90 (PROG YR)	99
(d) Design Complete Date	Oct 90

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4.PROJECT TITLE Military Police Station Addition		5.PROJECT NUMBER 15818

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X

(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	26
(b) All Other Design Costs	92
(c) Total Cost	118
(d) Contract	81
(e) In-house	37

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Hohenfels Training Area Hohenfels, Germany	4.PROJECT TITLE Hardstand & Maintenance Sheds

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 214	7.PROJECT NUMBER 25237	8.PROJECT COST ($000) Auth 4,350 Approp 4,350

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,446
Vehicle Storage Sheds	SF	78,221	19.14	(1,497)
Parking Area	SY	19,897	37.00	(736)
Apron	SY	9,884	37.00	(366)
POL Separators/Retention Basins	EA	4	14,358	(57)
Contaminated Soil Removal	CY	90,000	8.75	(788)
Information Systems	LS	-	-	(2)
Supporting Facilities				442
Electric Service	LS	-	-	(64)
Water, Sewer & Gas	LS	-	-	(14)
Paving, Walks, Curbs & Gutters	LS	-	-	(73)
Storm Drainage	LS	-	-	(211)
Site Improvement	LS	-	-	(80)
Subtotal				3,888
Contingency (5.00%)				194
Total Contract Cost				4,082
Supervision, Inspection & Overhead (6.50%)				265
Total Request				4,347
Total Request (Rounded)				4,350
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct standard-design vehicle parking with four maintenance sheds and petroleum, oils, and lubricants (POL) separators. Supporting facilities include utilities, electric service, roads, parking, fire protection and alarm systems, security fencing and lighting, storm drainage, and site improvements which require removal of contaminated soil to approximately 65 centimeters.

11. REQUIREMENT: 177,775 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct standard-design vehicle parking with maintenance sheds. (Current Mission)

REQUIREMENT: This project is required to provide organizational vehicle parking for the 72 engineer vehicles, 253 tactical vehicles, 260 combat vehicles, 139 trailers, 26 fuel vehicles and 108 commercial vehicles assigned to units located at Hohenfels Training Area. Four vehicle storage sheds are required for the 65 combat vehicles assigned to the Army Basic Non-Commissioned Officer Course (BNCOC).

CURRENT SITUATION: Due to insufficient organizational vehicle parking, many vehicles are forced to park on temporary parking areas. These areas are basically unimproved ground (dirt mixed with gravel) and, as a result, are constantly torn-up and rutted by vehicles assigned to the area. During

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Hohenfels Training Area, Hohenfels, Germany		
4. PROJECT TITLE Hardstand & Maintenance Sheds		5. PROJECT NUMBER 25237

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
periods of rain and snow these areas turn into mud, forcing troops to work in adverse conditions, affecting morale and effectiveness. The dirt and gravel temporary parking areas lack adequate petroleum, oil, lubricants (POL) separators. As a result, POL contamination of storm water runoff and ground water is prevalent. Accidental POL spills seep unhindered into the ground water basin. These discharges violate Host Nation environmental standards and adversely affect Host Nation and US Forces relations. No maintenance sheds for combat vehicles assigned to BNCOC are available. All operators maintenance and classes on these vehicles must be accomplished outside without cover from the elements.
IMPACT IF NOT PROVIDED: If this project is not provided, units will be forced to continue parking their vehicles on gravel hardstands which become muddy during wet weather. Routine vehicular maintenance is impossible without spending excessive time to clean vehicles and equipment. Part of vehicles and equipment must be repaired and maintained outside in the elements. Formal classes to teach non-commissioned officers the maintenance of combat vehicles will continue outside in the elements.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jul 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Dec 89

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Germany Various

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 94
(b) All Other Design Costs 219
(c) Total Cost 313
(d) Contract 182
(e) In-house 131

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Hohenfels Training Area, Hohenfels, Germany

4. PROJECT TITLE Hardstand & Maintenance Sheds	5. PROJECT NUMBER 25237

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Rhine Ordnance Barracks Kaiserslautern, Germany	4.PROJECT TITLE Missile Maintenance Shop

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 212	7.PROJECT NUMBER 24030	8.PROJECT COST ($000) Auth 5,000 Approp 5,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,770
Decanning/Disassembly Building	SF	17,744	145.00	(2,573)
Addition to Test & Repair Bldg	SF	6,626	111.71	(740)
Connection Hallway	SF	2,404	56.00	(135)
IDS Installation	LS	–	–	(113)
Earth Berm	LS	–	–	(158)
Information Systems	LS	–	–	(51)
Supporting Facilities				721
Electric Service	LS	–	–	(57)
Water, Sewer & Gas	LS	–	–	(73)
Steam, Chilled Water & Heat Distribution	LS	–	–	(37)
Paving, Walks, Curbs & Gutters	LS	–	–	(126)
Storm Drainage	LS	–	–	(47)
Site Improvement (336) Demolition (22)	LS	–	–	(358)
Information Systems	LS	–	–	(23)
Subtotal				4,491
Contingency (5.00%)				225
Total Contract Cost				4,716
Supervision, Inspection & Overhead (6.50%)				307
Total Request				5,023
Total Request (Rounded)				5,000
Installed Equipment - Other Appropriations				(406)

10.Description of Proposed Construction Construct a Missile Recertification/Quality Assurance Facility for the new Army Tactical Missile System (ATACMS) including a decanning/disassembly building, an addition to the existing HAWK/PATRIOT test and repair facility and a connecting corridor between the explosive decanning/disassembly building and the inert test addition. Install an intrusion detection system (IDS). Bridge cranes (3-ton) and monorails are to be included in both the decanning and the test areas. Explosive blast walls (Category 3) are to be included in the decanning/disassembly building. Project will include the installation of 400 and 60 Hertz frequency converters. Supporting facilities include utilities, electric service, information systems, sanitary sewer, fire protection and alarm systems, paving, access road, walks, loading area, parking, storm drainage, additional perimeter fencing with gate and security lighting. Heating will be provided from the existing oil-fired heating plant, which must be upgraded to support the additional requirements. Air conditioning (75 tons) will be provided by self-contained system. Access for the handicapped will be provided.

11. REQUIREMENT: 51,508 SF ADEQUATE: 25,234 SF SUBSTANDARD: 24,850 SF

PROJECT: Construct a guided missile quality assurance facility. (New Mission)

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Rhine Ordnance Barracks, Kaiserslautern, Germany		
4.PROJECT TITLE Missile Maintenance Shop		5.PROJECT NUMBER 24030

11. REQUIREMENT: (Continued)

REQUIREMENT: This project is required to recertify, modify and repair missiles in theater to ensure the user that stored assets are operational and in a required state of readiness in the event of hostilities. The facility is necessary in theater because it is cost prohibitive to return missiles to the United States to perform the function. Further, transportation time plus recertification time at a continental United States (CONUS) facility is detrimental to readiness of missiles in theater. Due to Theater Readiness Monitoring Facilities' mission, specific requirements and justifications cannot be listed.

CURRENT SITUATION: The existing facility supports the HAWK and PATRIOT systems. This facility was designed for four missiles per bay (a total of 400 lbs). Workloads in FY 89/90, for HAWK and PATRIOT, indicates that the decanning facility (the facility where the missiles are unpacked from their transportation containers) will become increasingly congested and the additional workload of ATACMS cannot be supported. Furthermore, the current facility explosive safety distances and designs are not adequate for the larger explosive weight of ATACMS.

IMPACT IF NOT PROVIDED: If this project is not provided it will have an adverse effect upon the deployment of the new ATACMS program. Missiles cannot be recertified, modified, or repaired in theater. As a result, missile readiness will be degraded, determination of operational status difficult and uncertain, and expense of returning missiles to CONUS location cost prohibitive.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding. Department of Defense Explosive Safety Board (DDESB) approval has been obtained.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:
  (1) Status:
    (a) Design Start Date .... Apr 89
    (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 40
    (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    (d) Design Complete Date .... Sep 90

  (2) Basis:
    (a) Standard or Definitive Design - Yes ___ No X
    (b) Where Design Was Most Recently Used N/A

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Rhine Ordnance Barracks, Kaiserslautern, Germany		
4. PROJECT TITLE Missile Maintenance Shop		5. PROJECT NUMBER 24030

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	107
(b) All Other Design Costs	234
(c) Total Cost	341
(d) Contract	192
(e) In-house	149
(4) Construction Start	May 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Missile Test Station & Equip	OPA	91	361
IDS Equipment	OPA	91	45
		TOTAL	406

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Sullivan Barracks Mannheim, Germany	4.PROJECT TITLE Vehicle Maintenance Sheds

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 442	7.PROJECT NUMBER 29457	8.PROJECT COST ($000) Auth 7,600 Approp 7,600

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,665
Maintenance Sheds (6 each)	SF	85,332	18.62	(1,589)
Hardstand	SY	32,377	36.31	(1,176)
Apron	SY	11,982	36.31	(435)
Washrack w/Spray Booth	LS	–	–	(1,058)
Grease Racks	EA	4	97,758	(391)
See Cost Estimates (Continued)				(1,016)
Supporting Facilities				1,091
Electric Service	LS	–	–	(285)
Water, Sewer & Gas	LS	–	–	(76)
Storm Drainage	LS	–	–	(113)
Site Improvement (431) Demolition (173)	LS	–	–	(604)
Information Systems	LS	–	–	(13)
Subtotal				6,756
Contingency (5.00%)				338
Total Contract Cost				7,094
Supervision, Inspection & Overhead (6.50%)				461
Total Request				7,555
Total Request (Rounded)				7,600
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Construct six maintenance sheds with concrete floors, aprons and four 2-position covered grease racks, washrack with spray booth, and deployment equipment storage building. Also construct organizational vehicle parking, access roads, guard towers, petroleum, oils, and lubricants (POL) separators, and retention basins. Supporting facilities include utilities, electric service, security fencing, lighting, and sound wall, storm drainage, information systems, and site improvements. Washrack will be heated by electric space heaters. Demolish six buildings (35,473 SF) and one washrack.

11. REQUIREMENT: 199,108 SF ADEQUATE: 67,572 SF SUBSTANDARD: None

PROJECT: Construct six vehicle maintenance sheds, four grease racks, washrack, hardstand, aprons, roads, deployment equipment storage building, and guard towers. (Current Mission)

REQUIREMENT: This project is required to provide secure maintenance facilities, storage, hardstand, and operational facilities for 98 combat vehicles, 224 tactical vehicles, 148 trailers, and 20 fuel vehicles assigned to an armor battalion and a support company.

CURRENT SITUATION: Currently, the vehicles are parked and maintained on unimproved dirt and gravel surfaces. Maintenance sheds for covered secure

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Sullivan Barracks, Mannheim, Germany

4. PROJECT TITLE Vehicle Maintenance Sheds	5. PROJECT NUMBER 29457

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
POL Separators/Retention Basins	LS	-	-	189
Deployment Equipment Storage Bld	SF	4,200	40.97	172
Guard Towers	EA	6	23,275	140
Information Systems	LS	-	-	7
Access Roads	SY	14,000	36.31	508
			Total	1,016

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)
maintenance of tracked vehicles uploaded with ammunition do not exist. The current wash and grease racks are insufficient in size and layout for the quantity of vehicles assigned to units at Sullivan Barracks. Lack of adequate facilities to collect, retain, and separate water from oil, sand and other pollutants causes severe environmental problems.

IMPACT IF NOT PROVIDED: If this project is not provided, the units will continue to park and maintain their assigned vehicles on unimproved areas exposed to the elements, adversely affecting equipment condition and combat readiness. This situation will worsen with the fielding of the new M1A1 tank; costs will continue to increase due to man-hours required for maintenance and prevention of equipment deterioration.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... May 85
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jul 89

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 168

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DD FORM 1 DEC 76 1391C

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90
3.INSTALLATION AND LOCATION Sullivan Barracks, Mannheim, Germany		
4.PROJECT TITLE Vehicle Maintenance Sheds	5.PROJECT NUMBER 29457	

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

		($000)
(3) Total Cost: (Continued)		
(b)	All Other Design Costs	354
(c)	Total Cost	522
(d)	Contract	289
(e)	In-house	233

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Various Sites in Germany Various Sites, Germany	4.PROJECT TITLE Wartime Host Nation Support

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 141	7.PROJECT NUMBER 29459	8.PROJECT COST ($000) Auth 2,500 Approp 2,500

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,800
Administration Facilities	LS	–	–	(570)
Hardstand & Apron Paving	LS	–	–	(205)
Maintenance Shops	LS	–	–	(125)
Storage Buildings	LS	–	–	(330)
Training Sites	LS	–	–	(250)
See Cost Estimates (Continued)				(320)
Supporting Facilities				457
Electric Service	LS	–	–	(94)
Water, Sewer & Gas	LS	–	–	(94)
Steam, Chilled Water & Heat Distribution	LS	–	–	(85)
Paving, Walks, Curbs & Gutters	LS	–	–	(46)
Storm Drainage	LS	–	–	(46)
Site Improvement	LS	–	–	(46)
Information Systems	LS	–	–	(46)
Subtotal				2,257
Contingency (5.00%)				113
Total Contract Cost				2,370
Supervision, Inspection & Overhead (6.50%)				154
Total Request				2,524
Total Request (Rounded)				2,500
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Provide the US share of funding to construct the fifth phase of a program for standard-design Wartime Host Nation Support (WHNS) operations facilities to include heated, unheated and controlled humidity warehouses, maintenance facilities, training areas, unit headquarters, billets, ammunition storage, maintenance bays, multi-purpose rooms, shower and changing rooms, dining room, kitchenettes, hardstands, grease racks, vehicle wash facilities. Install an intrusion detection system (IDS). Supporting facilities include utilities, electric service, information systems, parking, heat plants, transformer stations, booster stations, sanitary sewage, storm drainage lifting stations, petroleum, oil, and lubricants (POL) separators, site improvements, demolition, and correction of safety hazards. Mechanical ventilation: 500,000 CFM.

11. REQUIREMENT: 109 EA ADEQUATE: 18 EA SUBSTANDARD: None

PROJECT: Construct miscellaneous facilities at various Army and Air Force WHNS sites for storage, headquarters, ammunition storage facilities and training facilities on a 50/50 cost sharing basis with the Federal Republic of Germany (FRG) for all costs not eventually funded by the North Atlantic Treaty Organization (NATO). (Current Mission)

REQUIREMENT: Project is required to store vehicles and materiel being

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90
3.INSTALLATION AND LOCATION Various Sites in Germany, Various Sites, Germany		
4.PROJECT TITLE Wartime Host Nation Support		5.PROJECT NUMBER 29459

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Unit Headquarters	LS	-	-	80
Billets w/Berthing & Dining *	LS	-	-	70
Ammunition Bunkers *	LS	-	-	100
IDS Installation	LS	-	-	70
			Total	320

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
procured for German WHNS units which function in lieu of US Forces to fulfill US commitment to reinforce NATO with ten divisions in ten days, and to provide headquarters and training facilities for those units. The FRG offer to prefinance all facilities and to share cost with the US on a 50/50 basis of those facilities not ultimately funded by NATO, will result in the total WHNS facilities (including storage facilities needed immediately) being in place approximately five years earlier than the current NATO funding plan would provide. The FRG offer is contingent on US acceptance of FRG construction standards, applicable Bundeswehr military standards, requirements for active duty and reserve units, and on US programming of necessary funds for anticipated US cost share.

CURRENT SITUATION: WHNS is a product of a US-FRG governmental agreement of 15 April 1982, and a 13 June 1986 Implementing Technical Agreement signed between US European Command (USEUCOM) and Ministry of Defense (MOD) Bonn under which FRG is to provide US European Theater Forces critical combat service and combat service support (CS/CSS) units during crisis or war. FRG will provide 85,000 German reservists to man these units. Approximately 85 percent of equipment requirements will be provided via mobilized civilian resources. WHNS provides the most economical method to improve US security and meet logistical support requirements during the critical first ten days of mobilization, reduces US airlift requirements, and reduces the need for stationing additional US troops in Europe. Initial projections of 80 percent of the cost being eligible for NATO funding now appear no longer accurate. In the six years that have passed since the initial signing of the WHNS agreement, several refinements of facility requirements including size and type of structures, a number of Army and Air Force sites (now estimated to be 103), and NATO eligibility criteria have been made. Estimated total program costs are projections based on current criteria and policy. Actual project requirements are established after determination of NATO eligibility and costs are subject to the prevailing exchange rate at the time of obligation. Additionally, FRG will (with US support) strive to obtain maximum NATO funding. Funding requests may have to be adjusted upward as more detailed project costs become known. Increased funding will not be sought until more detailed NATO determination of cost share is available. FRG has agreed to

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Various Sites in Germany, Various Sites, Germany		
4.PROJECT TITLE Wartime Host Nation Support		5.PROJECT NUMBER 29459

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
prefinance the total cost of construction, contingent upon US agreement to share the cost (50/50) of the non-NATO eligible construction. The FRG currently estimates the facility cost of the WHNS program to be in the range of DM 420 to 450 million. Because of uncertainties due to the number of sites, certain categories of facilities, and the final share of NATO funding, the Army is using the high end of this estimate range in making program projections. Based on budgeted exchange rates, and NATO funding from 40 to 60 percent of facility costs, the total US commitment over the life of this program is estimated to be between $51 and $77 million. This year's request represents the current requirement toward this program total.
IMPACT IF NOT PROVIDED: If this project is not provided, the FRG would probably doubt US commitment and possibly jeopardize all agreements and future new Army Burden Sharing Initiatives (BSI). The FRG may refuse to prefinance due to their own constrained funding situation. Construction of facilities to store approximately one-half billion dollars worth of equipment will not be completed in a timely manner; equipment will not be properly stored resulting in a rapid deterioration and increased maintenance costs; adequate training facilities for the FRG Support Forces (German Reservists) to train will not be available; there will be a serious degradation of the operational capability of the FRG Support Forces, and by direct correlation, a potential degradation of the war fighting capabilities of the US Army units being supported.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This program is partially NATO funded. This project provides US share of the requirements not NATO funded.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Apr 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 50
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jul 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Europe various

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 40

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Various Sites in Germany, Various Sites, Germany		
4.PROJECT TITLE Wartime Host Nation Support		5.PROJECT NUMBER 29459

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

	($000)
(3) Total Cost: (Continued)	
(b) All Other Design Costs	102
(c) Total Cost	142
(d) Contract	72
(e) In-house	70
(4) Construction Start	Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90

3. INSTALLATION AND LOCATION Various Sites in Germany Various Sites, Germany	4. PROJECT TITLE Record Fire Ranges

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 179	7. PROJECT NUMBER 31718	8. PROJECT COST ($000) Auth 4,053 Approp 4,053

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,625
Multi-Purpose Ranges	LS	-	-	(3625)
Subtotal				3,625
Contingency (5.00%)				181
Total Contract Cost				3,806
Supervision, Inspection & Overhead (6.50%)				247
Total Request				4,053
Total Request (Rounded)				4,053
Installed Equipment - Other Appropriations				(290)

10. Description of Proposed Construction Construct and modify a 300-meter Known Distance (KD) range into a multi-purpose automated range. Primary facilities include all construction within the perimeter of the range complex and consist of 17 overhead baffles and 31 pairs of side baffles, six target banks, firing lanes, target positions, back stops, side berms, foxholes, remote target system (RETS), support buildings, and a range support control building to house computer console. Heating and air conditioning (1 ton) will be provided by self-contained systems for the range buildings. Targetry to be funded by other project appropriations (OPA).

11. REQUIREMENT: 14 FP ADEQUATE: None SUBSTANDARD: 32 FP

PROJECT: Modify a 300-meter KD range into a multi-purpose automated range at Roman Hill Training Area, Wuerzburg. (Current Mission)

REQUIREMENT: This project is required to provide improved marksmanship training facilities to support over 10,000 soldiers. The upgrade of this range will permit qualification on the M16A1 and M16A2 rifles, and will provide safe and adequate facilities for Squad Automatic Weapons (SAW) and M60 machine gun training. This capability is essential to USAREUR units' gunnery training programs.

CURRENT SITUATION: USAREUR conducts its rifle marksmanship training on

1.COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2.DATE JAN 90
3.INSTALLATION AND LOCATION Various Sites in Germany, Various Sites, Germany		
4.PROJECT TITLE Record Fire Ranges		5.PROJECT NUMBER 31718

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
inadequate pre-World War II (WWII) vintage KD ranges. These ranges, originally built in rural areas, have now been surrounded by urban development, public roads, and recreation areas due to the massive development in West Germany since WWII. USAREUR has constructed earth berms, and concrete, wooden-faced baffles to prevent stray bullets and ricochets from leaving the range area.

IMPACT IF NOT PROVIDED: If this project is not provided, inadequate, labor intensive, and antiquated KD ranges must be used to provide vital marksmanship training for USAREUR soldiers. This will result in a significant loss of training time, lower quality of training, and large costs for manpower and time. This project will provide USAREUR with a modern, state-of-the-art marksmanship training facility and they will allow the commander to qualify a firing order in less than 20 minutes. Without the construction of this range, USAREUR marksmanship training will continue using the technology of the 1930s.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project has been selected as a candidate for funding under the Office of the Secretary of Defense (OSD) Productivity Investment Funding Program. An economic analysis has been performed in accordance with Department of Defense Instruction 5010.36 (Productivity Enhancing Capital Investments), and Army Regulation 5-4 (Department of the Army Productivity Improvement Program). The analysis compares New Construction to Status Quo and reports that the investment will have a discounted payback period of 0.9 years. This project is not eligible for Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Jul 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Aug 87

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications .... ______
(b) All Other Design Costs .... ______

COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
INSTALLATION AND LOCATION arious Sites in Germany, Various Sites, Germany		
PROJECT TITLE ecord Fire Ranges		5.PROJECT NUMBER 31718

2. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost: (Continued) ($000)

(c) Total Cost .... ______

(d) Contract .... ______

(e) In-house .... ______

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from
ther appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
argetry	OPA	92	290
		TOTAL	290

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION South Camp Vilseck Vilseck, Germany	4.PROJECT TITLE Hardstand/Tactical Equipment Shop & Sheds

5.PROGRAM ELEMENT 22396A	6.CATEGORY CODE 214	7.PROJECT NUMBER 5210	8.PROJECT COST ($000) Auth 8,500 Approp 8,500

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,522
Vehicle Maint Shop, Org.	SF	29,063	92.00	(2,674)
Maintenance Sheds (6 each)	SF	90,934	18.62	(1,693)
Deployment Equip Storage Bldg	SF	12,745	40.00	(510)
Relocate Prefab Building	LS	-	-	(57)
Apron	SY	18,498	37.00	(684)
See Cost Estimates (Continued)				(904)
Supporting Facilities				1,114
Electric Service	LS	-	-	(154)
Water, Sewer & Gas	LS	-	-	(98)
Steam, Chilled Water & Heat Distribution	LS	-	-	(12)
Paving, Walks, Curbs & Gutters	LS	-	-	(131)
Storm Drainage	LS	-	-	(304)
Site Improvement	LS	-	-	(335)
Information Systems	LS	-	-	(20)
Ammunition (Dud) Clearance	LS	-	-	(60)
Subtotal				7,636
Contingency (5.00%)				382
Total Contract Cost				8,018
Supervision, Inspection & Overhead (6.50%)				521
Total Request				8,539
Total Request (Rounded)				8,500
Installed Equipment - Other Appropriations				(10)

10.Description of Proposed Construction Construct a standard-design vehicle organizational maintenance shop with bridge cranes, maintenance bays, maintenance pits, tire and welding bays, compressed air system with compresor, and areas for administration, shop control, shop supply, inspection, latrines, break, lockers, laundry showers, oil, parts and tools. Class A vault with Class V doors and intrusion detection system (IDS) will be installed. Also, construct standard-design maintenance sheds, a deployment equipment storage building, two-position covered grease racks, heated guard towers, a sentry station, hardstand and aprons. Supporting facilities include utilities, paving, walks, curbs and gutters, communications, fire protection, alarm systems, storm drainage, and site improvements. Heat will be provided by a coal-fired central plant. Relocate three prefabricated buildings. Install electric, energy flow and water meters and connect to the energy monitoring control system (EMCS). Dud clearance is required. Demolish three washracks (14,471 SF), organizational vehicle hardstand, security fences and retaining walls. Mechanical ventilation: 55,000 CFM.

11. REQUIREMENT: 130,358 SF ADEQUATE: 75,859 SF SUBSTANDARD: 14,471 SF

PROJECT: Construct a vehicle maintenance shop. (New Mission)

REQUIREMENT: This project is required to support stationing of an armor

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4. PROJECT TITLE Hardstand/Tactical Equipment Shop & Sheds		5. PROJECT NUMBER 5210

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Hardstand	SY	13,362	37.00	494
Grease Rack (Covered 2-Position)	EA	2	73,086	146
IDS Installation	LS	-	-	48
POL Separators/Retention Basin	LS	-	-	58
Guard Towers	EA	4	34,681	139
Sentry Station (Installation)	LS	-	-	10
Information Systems	LS	-	-	9
			Total	904

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) battalion at Vilseck under the Force Modernization Program. This unit must have facilities to maintain 96 combat, 77 tactical, 16 fuel and 42 trailer vehicles.

CURRENT SITUATION: Vilseck is the installation for the restationing of a five-battalion Brigade of an armored division. Movement of this brigade is scheduled during the FY 87-91 timeframe. The driving force behind the movement of this brigade is the modernization of Army aviation forces in Europe. The brigade is currently using aviation facilities at airfields at Illesheim and Katterbach, West Germany. These facilities must be cleared for the restationing of AH-64 aviation assets from the continental United States (CONUS) to Europe. Existing vehicle maintenance facilities at Vilseck are being fully utilized by units presently assigned to the installation.

IMPACT IF NOT PROVIDED: If this project is not provided, the five-battalion brigade of the armored division will be required to be restationed into an area without necessary maintenance facilities, in order to allow the restationing of AH-64 aviation assets from CONUS to Europe and the reorganization of a combat aviation brigade.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... Jul 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 94

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4.PROJECT TITLE Hardstand/Tactical Equipment Shop & Sheds		5.PROJECT NUMBER 5210

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(d) Design Complete Date .... Feb 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No __

(b) Where Design Was Most Recently Used Germany Various

(3) Total Cost (c) = (a)+(b) or (d)+(e):	($000)
(a) Production of Plans and Specifications	184
(b) All Other Design Costs	390
(c) Total Cost	574
(d) Contract	322
(e) In-house	252

(4) Construction Start .... Apr 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	90	10
		TOTAL	10

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION South Camp Vilseck Vilseck, Germany	4. PROJECT TITLE Fire Station

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 730	7. PROJECT NUMBER 5248	8. PROJECT COST ($000) Auth 1,250 Approp 1,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				804
Fire Station	SF	6,800	106.50	(724)
Storage Building	SF	500	44.00	(22)
Apron	SY	980	45.00	(44)
Information Systems	LS	-	-	(14)
Supporting Facilities				295
Electric Service	LS	-	-	(24)
Water, Sewer & Gas	LS	-	-	(54)
Steam, Chilled Water & Heat Distribution	LS	-	-	(16)
Paving, Walks, Curbs & Gutters	LS	-	-	(92)
Storm Drainage	LS	-	-	(42)
Site Improvement	LS	-	-	(25)
Information Systems	LS	-	-	(31)
Ammunition (Dud) Clearance	LS	-	-	(11)
Subtotal				1,099
Contingency (5.00%)				55
Total Contract Cost				1,154
Supervision, Inspection & Overhead (6.50%)				75
Total Request				1,229
Total Request (Rounded)				1,250
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design one-company fire station consisting of stalls for three fire fighting vehicles and one administrative vehicle and dormitory housing. Work includes a workshop, hose drying area, watch room, fitness room, office, storage space, acetylene and nitrogen gas storage areas, mechanical room, central alarm system, and a place to recharge and store fire extinguishers. Supporting facilities include utilities, electric service, information systems, fire protection, exterior lighting, storm drainage, parking, walks, curbs and gutters, paving, access road, site improvements and connection to the fire alarm system provided in FY 87 MCA Project 2305. Heat will be provided by a central heat plant. Installation of electric, energy flow and water meters, connect to the energy monitoring and control system (EMCS). Dud clearance is required. Mechanical ventilation: 34,000 CFM.

11. REQUIREMENT: 6,800 SF ADEQUATE: None SUBSTANDARD: 6,553 SF

PROJECT: Construct a standard-design one-company fire station. (New Mission)

REQUIREMENT: This project is required to support restationing of units to Vilseck under the Force Modernization Program. Vilseck is the installation for the restationing of a five-battalion brigade of an armored division. The

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4.PROJECT TITLE Fire Station		5.PROJECT NUMBER 5248

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued) brigade is currently using the aviation facilities at Illesheim and Katterbach, West Germany. These facilities must be cleared for the fielding of AH-64 aviation forces in US Army Europe (USAREUR).

CURRENT SITUATION: The existing fire station (6,553 SF) has poor access to the main post facilities. The floor plan is inefficient, and there is no space for additional equipment, or modern replacement equipment. The present personnel equipment storage area is not suitable and hoses are stored in the physical fitness room. Expanding and modernizing the current fire station is not feasible because of its distant location from the family housing areas and the facilities for the five battalions. Distances to the family housing areas and to the five battalion complex vary between 1,200 and 1,800 meters.

IMPACT IF NOT PROVIDED: If this project is not provided, required fire protection will not be available to the restationed units. Deletion or deferral of this project will cause soldiers and their families to be restationed into an area without adequate fire protection.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date	Jun 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	98
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jan 90

(2) Basis:

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Germany Various

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	25
(b) All Other Design Costs	75
(c) Total Cost	100
(d) Contract	65
(e) In-house	35

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4.PROJECT TITLE Fire Station		5.PROJECT NUMBER 5248

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Mar 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION South Camp Vilseck Vilseck, Germany	4. PROJECT TITLE Chapel Center/Religious Education Fac

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 730	7. PROJECT NUMBER 5249	8. PROJECT COST ($000) Auth 3,300 Approp 3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,217
Chapel/Rel Ed Facility	SF	19,650	109.75	(2,157)
Bell Tower	LS	-	-	(46)
Information Systems	LS	-	-	(14)
Supporting Facilities				745
Electric Service	LS	-	-	(16)
Water, Sewer & Gas	LS	-	-	(208)
Steam, Chilled Water & Heat Distribution	LS	-	-	(15)
Paving, Walks, Curbs & Gutters	LS	-	-	(162)
Storm Drainage	LS	-	-	(87)
Site Improvement (206) Demolition (24)	LS	-	-	(230)
Information Systems	LS	-	-	(5)
Dud Clearance	LS	-	-	(22)
Subtotal				2,962
Contingency (5.00%)				148
Total Contract Cost				3,110
Supervision, Inspection & Overhead (6.50%)				202
Total Request				3,312
Total Request (Rounded)				3,300
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard design chapel with entrance canopy and religous education facility. Supporting facilities include utilities, driveways and parking, walks, curbs and gutters, paving, exterior lighting, site improvements, installation of an energy monitoring control system (EMCS), information systems and fire alarm/detection system with connection to the fire station. Supporting costs are high because the site, although centrally located in the family housing area, has very poor soil which cannot provide sufficient bearing capacity. This soil must be excavated and replaced. Demolish a temporary storage facility (406 SF) and wash platform (8,260 SY). Access for the handicapped will be provided. Dud clearance is required. Heat will be provided by an existing central plant. Mechanical ventilation: 92,000 CFM.

11. REQUIREMENT: 33,881 SF ADEQUATE: None SUBSTANDARD. 6,631 SF

PROJECT: Construct a standard-design chapel with entrance canopy and religious education facility. (Current Mission)

REQUIREMENT: This project is required to provide facilities for religious services, and religious education for the soldiers and family members of the five battalions and associated units being stationed at Vilseck as a part of force modernization. Vilseck is the installation chosen to be used for the

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4. PROJECT TITLE Chapel Center/Religious Education Fac		5. PROJECT NUMBER 5249

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
restationing of an armored brigade. This movement is taking place during 1987-1991. Restationing will free existing airfield facilities and enable modernization of aviation forces within the US Army Europe (USAREUR).

CURRENT SITUATION: The existing chapel is extremely small with only a 170-seat capacity. The existing religious education facility is located in a one room temporary building attached to the chapel. It does not have classrooms, an assembly room or an adequate kitchen.

IMPACT IF NOT PROVIDED: If this project is not provided, facilities for religious services and religious education will continue to be grossly inadequate. There will be a lack of opportunities for soldiers and family members to pursue activities which contribute to self development and harmonious family life. Without this facility, the morale of all units stationed at Vilseck will suffer.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:

- A. Estimated Design Data:
  - (1) Status:
    - (a) Design Start Date .... May 89
    - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
    - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    - (d) Design Complete Date .... Sep 90
  - (2) Basis:
    - (a) Standard or Definitive Design - Yes ___ No X
    - (b) Where Design Was Most Recently Used N/A
  - (3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
    - (a) Production of Plans and Specifications 71
    - (b) All Other Design Costs 164
    - (c) Total Cost 235
    - (d) Contract 137
    - (e) In-house 98
  - (4) Construction Start .... Apr 91 month & year

INTENTIONAL
BLANK

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4. PROJECT TITLE Chapel Center/Religious Education Fac		5. PROJECT NUMBER 5249

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION South Camp Vilseck Vilseck, Germany	4. PROJECT TITLE Multi-Purpose Auditorium Facility

5. PROGRAM ELEMENT 22396A	6. CATEGORY CODE 740	7. PROJECT NUMBER 5254	8. PROJECT COST ($000) Auth 2,550 Approp 2,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,577
Theater	SF	12,750	121.50	(1,549)
Information Systems	LS	-	-	(28)
Supporting Facilities				684
Electric Service	LS	-	-	(42)
Water, Sewer & Gas	LS	-	-	(70)
Steam, Chilled Water & Heat Distribution	LS	-	-	(54)
Paving, Walks, Curbs & Gutters	LS	-	-	(229)
Storm Drainage	LS	-	-	(49)
Site Improvement	LS	-	-	(174)
Information Systems	LS	-	-	(6)
Ammunition (Dud) Clearance	LS	-	-	(60)
Subtotal				2,261
Contingency (5.00%)				113
Total Contract Cost				2,374
Supervision, Inspection & Overhead (6.50%)				154
Total Request				2,528
Total Request (Rounded)				2,550
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a 500-seat multi-purpose auditorium to include a seating and viewing area, projection booth, dressing rooms, mechanical equipment room, and lobby. Supporting facilities include utilities, electric service, information systems, fire protection and alarm systems, paving, walks, curbs and gutters, parking, storm drainage, street lighting, and site improvements. Heating will be provided by a coal-fired central plant. Access for the handicapped will be provided. Dud clearance is required. Mechanical ventilation: 55,000 CFM.

11. REQUIREMENT: 26,800 SF ADEQUATE: 10,485 SF SUBSTANDARD: None

PROJECT: Construct a 500-seat multi-purpose auditorium. (Current Mission)

REQUIREMENT: This project is required to provide training and recreation facilities for the troops of the five battalions and associated units of an armored brigade being stationed at Vilseck under the Force Modernization Program. Movement of these units is during the FY 87-91 timeframe, with two battalions and the Brigade Headquarters having relocated by the third quarter of FY 88. The driving force behind these movements is the modernization of aviation forces within US Army Europe (USAREUR).

CURRENT SITUATION: There is presently only a 458-seat theater at Vilseck, which is inadequate to meet installation requirements. The existing theater

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION

South Camp Vilseck, Vilseck, Germany

4.PROJECT TITLE Multi-Purpose Auditorium Facility	5.PROJECT NUMBER 5254

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
cannot be expanded due to space limitations and is located almost a mile from the center of the new troop billeting area. Brigade elements are currently using aviation facilities at airfields at Illesheim and Katterbach, West Germany. These facilities must be cleared for the restationing of AH-64 aviation assets from the continental United States (CONUS) to USAREUR.
IMPACT IF NOT PROVIDED: If this project is not provided, the existing theater will be inadequate to meet the increased training demand, which will have a negative effect on the training and morale of the soldiers to be stationed at Vilseck. Soldiers and their families will be restationed into an area without adequate quality-of-life facilities.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and no security improvements are required. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for NATO Infrastructure funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Oct 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 55
(b) All Other Design Costs 129
(c) Total Cost 184
(d) Contract 108
(e) In-house 76

(4) Construction Start .... Apr 91
month & year

DD FORM 1 DEC 76 1391C PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION South Camp Vilseck, Vilseck, Germany		
4.PROJECT TITLE Multi-Purpose Auditorium Facility		5.PROJECT NUMBER 5254

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Japan		Japan Various (USARJ)				453
		Honshu				
	14565	Ammunition Surveillance Facility		2,050	2,050	455
	26592	Ammunition Storage		8,400	8,400	457
		SUBTOTAL Japan Various PART I	$	10,450	10,450	
		* TOTAL MCA FOR Japan	$	10,450	10,450	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Japan Various Japan	4. COMMAND US Army Japan	5. AREA CONSTRUCTION COST INDEX 1.89

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 0 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89....................................	0
C. AUTHORIZATION NOT YET IN INVENTORY..................................	18,259
D. AUTHORIZATION REQUESTED IN THIS PROGRAM.............................	10,450
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	0
F. PLANNED IN NEXT THREE YEARS..	124,770
G. REMAINING DEFICIENCY...	14,084
H. GRAND TOTAL..	167,563

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
216	14565	Ammunition Surveillance Facility	2,050	09/86	01/90
421	26592	Ammunition Storage	8,400	09/86	06/90
		SUBTOTAL PROJECTS OVER $1M	10,450		
		TOTAL	10,450		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) : NONE		
B. PLANNED NEXT THREE PROGRAM YEARS :		
165	Dredging and Pier Improvements	29,000
219	FE MAINT SHOPS-ZAMA	9,800
871	SEAWALL/PIER-HIRO	8,600
851	MIZUHO BRIDGE(RECONST)-YND	8,500
441	WAREHOUSE(#3)-SGD	7,730
	SUBTOTAL PROJECTS OVER $1M	63,630
	TOTAL	63,630

10. MISSION OR MAJOR FUNCTIONS:
Maintain bases in Japan to provide supply maintenance, storage, procurement, transportation, engineering, medical and other essential services required to support USARJ operational plans with a capability for expansion when needed.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Japan Various Japan

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Akizuki Army Ammunition Depot Honshu, Japan	4. PROJECT TITLE Ammunition Surveillance Facility

5. PROGRAM ELEMENT 22411A	6. CATEGORY CODE 216	7. PROJECT NUMBER 14565	8. PROJECT COST ($000) Auth 2,050 Approp 2,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,194
Ammunition Surveillance Facility	SF	11,178	105.63	(1,181)
Information Systems	LS	–	–	(13)
Supporting Facilities				652
Electric Service	LS	–	–	(69)
Water, Sewer & Gas	LS	–	–	(118)
Paving, Walks, Curbs & Gutters	LS	–	–	(32)
Storm Drainage	LS	–	–	(63)
Site Improvement	LS	–	–	(342)
Information Systems	LS	–	–	(28)
Subtotal				1,846
Contingency (5.00%)				92
Total Contract Cost				1,938
Supervision, Inspection & Overhead (6.50%)				126
Total Request				2,064
Total Request (Rounded)				2,050
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a three-bay ammunition surveillance workshop. Supporting facilities include utilities, electric service, storm drainage, roads, paving, retaining wall, information systems, and site improvements. Heating and air conditioning (7 tons) for administration area only will be provided by self-contained systems.

11. REQUIREMENT: 20,932 SF ADEQUATE: None SUBSTANDARD: None

PROJECT: Construct a three-bay ammunition surveillance workshop. (Current Mission)

REQUIREMENT: This project is required to reduce the existing ammunition storage quantity distance (QD) safety violations and eliminate the need to operate under waiver.

CURRENT SITUATION: The present facility was converted from warehouse space into a three-bay surveillance workshop, but the bays are not separated by blast walls as required by safety criteria. This facility is sited approximately 292 feet from the installation boundary. The siting of the existing facility is too close to the installation boundary and violates QD requirements (the radius of danger if a specific quantity of ammunition explodes). The amount of ammunition stored at this complex has increased since 1984 and the associated surveillance work load has increased

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Akizuki Army Ammunition Depot, Honshu, Japan		
4. PROJECT TITLE Ammunition Surveillance Facility		5. PROJECT NUMBER 14565

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
accordingly.
IMPACT IF NOT PROVIDED: If this project is not provided, the ammunition surveillance and inspection operation will be conducted in a manner that does not comply with safety standards. Workers will remain exposed to catastrophic danger in the event of an accidental explosion.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Foreign Investment Program funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Sep 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Jan 90

(2) Basis:
(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 38
(b) All Other Design Costs 50
(c) Total Cost 88
(d) Contract 58
(e) In-house 30

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Kawakami Ammunition Stor Fac Honshu, Japan	4.PROJECT TITLE Ammunition Storage

5.PROGRAM ELEMENT 22411A	6.CATEGORY CODE 421	7.PROJECT NUMBER 26592	8.PROJECT COST ($000) Auth 8,400 Approp 8,400

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				5,349
Ammunition Magazines	SF	43,975	103.45	(4,549)
Aprons	SY	3,630	48.28	(175)
IDS Installation	LS	–	–	(109)
Relocate Drainage Channel	LS	–	–	(508)
Information Systems	LS	–	–	(8)
Supporting Facilities				2,122
Electric Service	LS	–	–	(192)
Water, Sewer & Gas	LS	–	–	(374)
Paving, Walks, Curbs & Gutters	LS	–	–	(343)
Storm Drainage	LS	–	–	(240)
Site Improvement (745) Demolition (79)	LS	–	–	(824)
Information Systems	LS	–	–	(149)
Subtotal				7,471
Contingency (5.00%)				374
Total Contract Cost				7,845
Supervision, Inspection & Overhead (6.50%)				510
Total Request				8,355
Total Request (Rounded)				8,400
Installed Equipment - Other Appropriations				(52)

10.Description of Proposed Construction Construct 20 standard-design earth-covered magazines, with aprons, exterior security lighting, and install an intrusion detection system (IDS). Supporting facilities include electrical distribution, paving, walks, curbs and gutters, information systems, roads, parking, storm drainage, and site improvements to include relocation of existing open channel drainage and fire water line. Demolish two buildings (8,207 SF) and earth embankments.

11. REQUIREMENT: 170,005 SF ADEQUATE: 14,760 SF SUBSTANDARD: 252,048 SF

PROJECT: Construct 20 standard-design earth-covered magazines with aprons. (Current Mission)

REQUIREMENT: This project is required to provide safe and secure facilities for ammunition storage, reduce existing explosive safety quantity-distance (ESQD) violations, and provide for protected storage. This project will also help reduce deterioration of ammunition stocks which are currently exposed to the weather.

CURRENT SITUATION: The Kawakami Ammunition Storage Facility is part of the US Army Ammunition Depot, Akizuki (located in southern Japan) whose mission is to provide storage, maintenance and renovation to all conventional ammunition stocks in the Western Command (WESTCOM) war reserve and provides replacement

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION
Kawakami Ammunition Stor Fac, Honshu, Japan

4.PROJECT TITLE Ammunition Storage	5.PROJECT NUMBER 26592

11. REQUIREMENT: (Continued)
CURRENT SITUATION: (Continued)
ammunition for Prepositioned Ship Operations for the Rapid Deployment Force (RDF) in the Pacific. Akizuki Ammunition Depot complex is the only US Army ammunition storage area in Japan and the only ammunition renovation facility in the Pacific located at Kawakami. Ammunition is adequately stored in one cave and six Stradley-Arch type igloos, but the remainder is still stored in above ground wood-framed magazines, temporary transitory shelters and ammunition sheds which were built around 1951. These above ground magazines do not conform to current security and safety criteria for storing ammunition. Except for the six igloos, the existing storage facilities do not meet the quantity-distance criteria requirements and are operating under waiver.
IMPACT IF NOT PROVIDED: If this project is not provided, operation of the storage facility will continue to fail to eliminate ESQD violations, meet the established goals of the USARJ explosive safety master plan and comply with requirements of Army Chief of Staff's "Safe Army 1990" program which directs that commands will be waiver free.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Foreign Investment Program funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:

(a) Design Start Date	Sep 86
(b) Percent Complete As Of 01 January 90 (BDGT YR)	90
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Jun 90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Kawakami, Japan

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	175
(b) All Other Design Costs	94
(c) Total Cost	269
(d) Contract	219
(e) In-house	50

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Kawakami Ammunition Stor Fac, Honshu, Japan

4. PROJECT TITLE Ammunition Storage	5. PROJECT NUMBER 26592

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(4) Construction Start .... Mar 91
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	52
		TOTAL	52

DD FORM 1 DEC 76 1391C

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Korea		Korea Various (EUSA)			463
		Eastern Corridor			
	14662	Barracks	8,690	8,690	465
	14773	Tactical Equipment Shop	8,500	8,500	468
		Various Sites			
	28229	Ammunition Storage	11,000	11,000	471
		Western Corridor			
	24262	Tactical Equipment Shop	1,800	1,800	474
		Yongsan			
	22035	Flight Simulator Building	1,500	1,500	477
		SUBTOTAL Korea Various PART I	$ 31,490	31,490	
		* TOTAL MCA FOR Korea	$ 31,490	31,490	
**TOTAL OUTSIDE THE UNITED STATES FOR MCA			$ 105,433	105,433	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Korea Various Korea	4. COMMAND Eighth United States Army	5. AREA CONSTRUCTION COST INDEX 1.02

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..	0
C. AUTHORIZATION NOT YET IN INVENTORY..	191,817
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..	31,490
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..	74,550
F. PLANNED IN NEXT THREE YEARS..	765,595
G. REMAINING DEFICIENCY..	456,890
H. GRAND TOTAL..	1,520,342

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	22035	Flight Simulator Building	1,500	04/89	12/89
422	28229	Ammunition Storage	11,000	05/89	05/90
721	14662	Barracks	8,690	05/88	09/89
214	14773	Tactical Equipment Shop	8,500	05/88	10/89
214	24262	Tactical Equipment Shop	1,800	08/88	09/89
		SUBTOTAL PROJECTS OVER $1M	31,490		
		TOTAL	31,490		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
721	Barracks	3,100
214	Tactical Equipment Shop Addition	5,600
724	Unaccompanied Officer Housing	2,650
721	Barracks	6,000
740	Physical Fitness Training Center	1,600
721	Barracks	5,300
214	Tactical Equipment Shop	1,200
721	Barracks	9,800
721	Unaccompanied Personnel Housing	3,800
131	Communications Facility	1,750
214	Tactical Equipment Shop	1,750
141	Operations Facility	1,800
550	Deployment Equipment Storage Building	2,500

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Korea Various Korea

9. FUTURE PROJECTS: (...CONTINUE)

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
550	Deployment Equipment Storage Building	1,850
214	Tactical Equipment Shop	4,800
214	Vehicle Maintenance Shop	9,500
442	General Purpose Warehouse	2,100
722	Dining Facility	2,550
724	BARRACKS-STANTON	1,900
214	TACT EQUIP MOD/ADDN-CASEY	5,000
	SUBTOTAL PROJECTS OVER $1M	74,550
	TOTAL	74,550

10. MISSION OR MAJOR FUNCTIONS:

To carry out the responsibility of the United Nations Command: US Forces, Korea and the Eighth US Army.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Camp Casey Eastern Corridor, Korea	4.PROJECT TITLE Barracks

5.PROGRAM ELEMENT 22496A	6.CATEGORY CODE 721	7.PROJECT NUMBER 14662	8.PROJECT COST ($000) Auth 8,690 Approp 8,690

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,883
Unaccompanied Enlisted Housing	SF	105,600	56.10	(5,924)
Company Operations	SF	14,490	56.10	(813)
Information Systems	LS	–	–	(137)
IDS Installation	LS	–	–	(9)
Supporting Facilities				888
Electric Service	LS	–	–	(219)
Water, Sewer & Gas	LS	–	–	(76)
Paving, Walks, Curbs & Gutters	LS	–	–	(77)
Storm Drainage	LS	–	–	(24)
Site Improvement (388) Demolition (38)	LS	–	–	(426)
Information Systems	LS	–	–	(33)
Fuel Oil Storage (3 each)	LS	–	–	(33)
Subtotal				7,771
Contingency (5.00%)				389
Total Contract Cost				8,160
Supervision, Inspection & Overhead (6.50%)				530
Total Request				8,690
Total Request (Rounded)				8,690
Installed Equipment - Other Appropriations				(15)

10.Description of Proposed Construction Construct a standard-design barracks with company operations facilities. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, storm drainage, fire protection and alarm systems, information systems, fuel oil storage, and site improvements. Heating and air conditioning (675 tons) will be provided by self-contained units. Demolish 19 buildings (25,147 SF).

11. REQUIREMENT: 7,002 PN ADEQUATE: 4,229 PN SUBSTANDARD: 1,283 PN

PROJECT: Construct a standard-design barracks with company operations facilities. (Current Mission)

REQUIREMENT: This project is required to provide adequate barracks for soldiers at Camp Casey. The total requirement, number of personnel housed in adequate facilities, and number of personnel housed, or that could be housed, in substandard facilities at this installation are indicated in the REQUIREMENT line above. This project will provide housing for a total of 264 personnel (PN): 264 E5-6 (intended utilization). Maximum utilization is 528 enlisted personnel.

CURRENT SITUATION: The requirement for adequate barracks space at Camp Casey has increased due to the reorganization of the Division Support Command (DISCOM) under the Army of Excellence (AOE) transition.

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE JAN 90
3. INSTALLATION AND LOCATION Camp Casey, Eastern Corridor, Korea		
4. PROJECT TITLE Barracks		5. PROJECT NUMBER 14662

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

Many soldiers at Camp Casey live and work in crowded, substandard quonset huts and other temporary facilities. These temporary facilities have deteriorated to the point where they require frequent and costly maintenance and repair to keep them in minimal livable condition. Many of the facilities have leaky walls, roofs, and windows which are not cost effective to replace due to the unsound condition of the structural members. Company operations are also located in the quonset huts and require security ~~waivers~~ to store weapons in the respective arms rooms. These substandard living and working conditions have a negative impact on the health, morale, and mission readiness of the 2d Infantry Division soldiers.

In addition, the Army of Excellence reorganization and restationing of units increased the total population of enlisted soldiers at Camp Casey creating a more severe shortage of adequate living spaces.

IMPACT IF NOT PROVIDED: If this project is not provided, soldiers will continue to live and work in substandard quonset huts. Maintenance and repair costs will continue to rise, utility costs will continue to be exorbitant, and the use of detached latrines will continue. The risks associated with storing weapons in quonset huts will continue. These conditions will adversely affect troop morale and the combat readiness and mission accomplishment of the 2d Infantry Division. Also, AOE restationing will be delayed since the total housing assets at Camp Casey are not sufficient for the additional soldiers already moving in.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Combined Defense Improvement Project funding. Department of Defense Explosives Safety Board (DDESB) approval has been received for this project.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... May 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 89

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Korea

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Camp Casey, Eastern Corridor, Korea		
4. PROJECT TITLE Barracks		5. PROJECT NUMBER 14662

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(3) Total Cost (c) = (a)+(b) or (d)+(e):

	($000)
(a) Production of Plans and Specifications	578
(b) All Other Design Costs	380
(c) Total Cost	958
(d) Contract	747
(e) In-house	211

(4) Construction Start .... Apr 90 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
IDS Equipment	OPA	91	15
		TOTAL	15

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Camp Hovey Eastern Corridor, Korea	4. PROJECT TITLE Tactical Equipment Shop

5. PROGRAM ELEMENT 22496A	6. CATEGORY CODE 214	7. PROJECT NUMBER 14773	8. PROJECT COST ($000) Auth 8,500 Approp 8,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,033
Vehicle Maintenance Shop, DS	SF	33,373	88.56	(2,956)
Vehicle Maintenance Shop, Org	SF	25,322	89.00	(2,254)
Deployment Equip. Storage Bldg	SF	4,200	44.42	(187)
POL Storage Building	SF	360	74.85	(27)
Sentry Station	SF	80	64.78	(5)
See Cost Estimates (Continued)				(1,604)
Supporting Facilities				606
Electric Service	LS	–	–	(64)
Water, Sewer & Gas	LS	–	–	(91)
Paving, Walks, Curbs & Gutters	LS	–	–	(60)
Storm Drainage	LS	–	–	(51)
Site Improvement (251) Demolition (1)	LS	–	–	(252)
Information Systems	LS	–	–	(37)
Fuel Oil Storage	LS	–	–	(51)
Subtotal				7,639
Contingency (5.00%)				382
Total Contract Cost				8,021
Supervision, Inspection & Overhead (6.50%)				521
Total Request				8,542
Total Request (Rounded)				8,500
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design tactical equipment shop, organizational and direct support maintenance facilities with required overhead cranes, work bays, a welding shop, office space, tool and parts storage, generator storage, petroleum, oil, lubricants (POL) storage and dispensing, M-12 Decontamination Apparatus storage. Also provide hardstand, sentry station, and a deployment storage building. Supporting facilities include utilities, storm drainage, paving, walks, curbs and gutters, fire protection and alarm systems, exhaust emission removal system, information systems, and site improvements. Heating and mechanical ventilation (130,000 CFM) will be provided by self-contained systems. Air conditioning (6 tons) will be provided for classrooms, administrative, and special environmental areas. Demolish two buildings (276 SF).

11. REQUIREMENT: 129,844 SF ADEQUATE: 25,459 SF SUBSTANDARD: 5,742 SF

PROJECT: Construct a standard-design tactical equipment shop. (Current Mission)

REQUIREMENT: This project is required to provide adequate maintenance facilities for the 302d Forward Support Battalion under Army of Excellence (AOE) reorganization. This unit is comprised of 149 vehicles and 403 personnel of which 91 personnel are assigned to the maintenance facilities.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Camp Hovey, Eastern Corridor, Korea		
4.PROJECT TITLE Tactical Equipment Shop		5.PROJECT NUMBER 14773

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Hardstand	SY	22,400	40.42	905
AC Pavement	SY	15,700	20.99	329
Information Systems	LS	-	-	57
Temporary Hardstand	SY	2,300	37.41	86
Temporary Maint Tent Lease	LS	-	-	41
Temporary Ammo Storage	LS	-	-	186
			Total	1,604

Direct support maintenance is performed on approximately 580 vehicles by the maintenance battalion.

CURRENT SITUATION: Six buildings are presently used for maintenance activities. Although their condition is adequate, they are just not large enough to meet the needs of the units now assigned. With the addition of the 149 vehicles of the Forward Support Battalion, this problem will only be compounded. Only one building (5,742 SF) is available for this unit to use. It is not only too small, but in poor condition. Maintenance tents will have to be used for most activities.

IMPACT IF NOT PROVIDED: If this project is not provided, the new unit will have no facility in which to conduct maintenance and maintain combat readiness. They will be forced to use temporary, deteriorated maintenance facilities and operate out of maintenance tents. This will negatively impact their ability to maintain their equipment and degrade their combat readiness.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Combined Defense Improvement Project (CDIP) funding. Department of Defense Explosives Safety Board (DDESB) approval may be required as it is located in the area of a tactical maintenance facility which will have up-loaded vehicles. Vehicles with explosive munitions will not be parked in this facility.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date .... May 88

(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35

(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100

(d) Design Complete Date .... Oct 89

(2) Basis:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Camp Hovey, Eastern Corridor, Korea

4. PROJECT TITLE Tactical Equipment Shop	5. PROJECT NUMBER 14773

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(a) Standard or Definitive Design - Yes X No ___

(b) Where Design Was Most Recently Used Korea

		($000)
(3)	Total Cost (c) = (a)+(b) or (d)+(e):	
(a)	Production of Plans and Specifications	480
(b)	All Other Design Costs	120
(c)	Total Cost	600
(d)	Contract	0
(e)	In-house	600

(4) Construction Start .... Apr 90 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION Various Sites in Korea Various Sites, Korea	4.PROJECT TITLE Ammunition Storage

5.PROGRAM ELEMENT 22496A	6.CATEGORY CODE 422	7.PROJECT NUMBER 28229	8.PROJECT COST ($000) Auth 11,000 Approp 11,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				6,967
Prefab. Ammunition Storage	SF	36,000	32.93	(1,186)
Concrete Pads	SY	20,588	31.14	(641)
Gravel Pavement	SY	65,513	7.40	(485)
Retaining Wall	LF	16,521	152.59	(2,521)
Sentry Station	SF	484	322.82	(156)
See Cost Estimates (Continued)				(1,978)
Supporting Facilities				2,954
Electric Service	LS	–	–	(435)
Paving, Walks, Curbs & Gutters	LS	–	–	(113)
Storm Drainage	LS	–	–	(1,051)
Site Improvement (1338) Demolition (10)	LS	–	–	(1,348)
Information Systems	LS	–	–	(7)
Subtotal				9,921
Contingency (5.00%)				496
Total Contract Cost				10,417
Supervision, Inspection & Overhead (6.50%)				677
Total Request				11,094
Total Request (Rounded)				11,000
Installed Equipment - Other Appropriations				(3)

10.Description of Proposed Construction Construct ammunition holding areas (AHA) consisting of site preparation, sentry stations, prefabricated magazines for downloaded storage, and barricaded parking pads for uploaded vehicles. Supporting facilities include utilities, electric service, paving, walks, curbs and gutters, storm drainage, gravel access roads, information systems, ventilation, security fencing and lighting, and site improvements. Demolish five buildings (5,181 SF). The cost of support facilities is high since site improvements include extensive excavation and earthwork to provide level ground at each of the five separate AHA locations. Due to limited real estate at these locations, the AHAs were sited close to the edge of the installation boundaries in hilly terrain in order to meet Quantity-Distance (Q-D) safety requirements.

11. REQUIREMENT: 96,000 SF ADEQUATE: 24,000 SF SUBSTANDARD: 26,400 SF

PROJECT: Construct ammunition holding areas at Camps Casey, Castle, Hovey and Howze. (Current Mission)

REQUIREMENT: This project is required to provide safer, better protected and more secure storage of the unit basic loads (UBL) of ammunition for various units in the 2d Infantry Division.

CURRENT SITUATION: These units currently utilize various temporary

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION

Various Sites in Korea, Various Sites, Korea

4. PROJECT TITLE Ammunition Storage	5. PROJECT NUMBER 28229

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Guard Tower	EA	11	10,904	120
Revetments	LS	-	-	119
Earthwork	CY	347,331	4.93	1,712
Information Systems	LS	-	-	27
			Total	1,978

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued) structures for storage of their UBLs. This storage does not meet safety requirements, adequately provide security nor protect the ammunition from exposure to the elements. Existing ammunition storage has waivers from Q-D safety criteria because of the lack of adequate real estate. Present storage is located on-post adjacent to heavily populated areas and presents serious hazards to personnel and military assets. These storage conditions severely jeopardize the reactive mission of the units and could result in elimination of the ammunition and destruction of US military assets and off-post property, along with seriously injuring personnel located in the munitions blast and fragmentation arcs. UBL deterioration from climatic influences has a negative impact on the US Force's ability to carry out missions in this forward area of Korea.

IMPACT IF NOT PROVIDED: If this project is not provided, personnel and structures within existing blast and fragmentation zones will continue to be exposed to possible death and destruction. The unit's ability to accomplish its mission will continue to be threatened.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Combined Defense Improvement Project funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:
- (1) Status:
  - (a) Design Start Date .... May 89
  - (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 70
  - (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
  - (d) Design Complete Date .... May 90
- (2) Basis:
  - (a) Standard or Definitive Design - Yes ___ No X

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Various Sites in Korea, Various Sites, Korea		
4. PROJECT TITLE Ammunition Storage		5. PROJECT NUMBER 28229

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(2) Basis: (Continued)

(b) Where Design Was Most Recently Used N/A

	($000)
(3) Total Cost (c) = (a)+(b) or (d)+(e):	
(a) Production of Plans and Specifications	165
(b) All Other Design Costs	200
(c) Total Cost	365
(d) Contract	190
(e) In-house	175

(4) Construction Start .... Mar 91 (month & year)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Information Sys Eq	OPA	91	3
		TOTAL	3

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Camp Garry Owen Western Corridor, Korea	4. PROJECT TITLE Tactical Equipment Shop

5. PROGRAM ELEMENT 22496A	6. CATEGORY CODE 214	7. PROJECT NUMBER 24262	8. PROJECT COST ($000) Auth 1,800 Approp 1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,357
Tactical Maintenance Facility	SF	11,302	97.30	(1,100)
Wash Platform	EA	1	56,013	(56)
Guard Tower	SF	49	307.76	(15)
Hardstand	SY	3,471	48.11	(167)
Information Systems	LS	–	–	(19)
Supporting Facilities				267
Electric Service	LS	–	–	(53)
Water, Sewer & Gas	LS	–	–	(35)
Paving, Walks, Curbs & Gutters	LS	–	–	(14)
Storm Drainage	LS	–	–	(19)
Site Improvement (101) Demolition (22)	LS	–	–	(123)
Information Systems	LS	–	–	(1)
Fuel Oil Storage	LS	–	–	(22)
Subtotal				1,624
Contingency (5.00%)				81
Total Contract Cost				1,705
Supervision, Inspection & Overhead (6.50%)				111
Total Request				1,816
Total Request (Rounded)				1,800
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct a standard-design tactical maintenance facility with work bays, inspection, lubrication pit, overhead hoists, office space, latrines, and storage for tools, parts, generators, and M-12 Decontamination Apparatus storage. Also construct a petroleum, oils, and lubricants (POL) storage building, sentry station, hardstand and a deployment storage building. Supporting facilities include utilities, paving, walks, curbs and gutters, storm drainage, fire protection and alarm systems, an exhaust emission removal system, information systems, and site improvements. Heating and air conditioning (4 tons) will be provided by self-contained systems for the training, administrative, and compact items repair spaces. Mechanical ventilation: 17,000 CFM. Demolish four buildings (6,398 SF).

11. REQUIREMENT: 25,000 SF ADEQUATE: 3,661 SF SUBSTANDARD: 12,607 SF

PROJECT: Construct a standard-design tactical maintenance facility. (Current Mission)

REQUIREMENT: This project is required to satisfy the tactical vehicle maintenance facility requirements for a newly formed Ground Cavalry Troop unit that is to move to Camp Garry Owen under Army of Excellence (AOE) reorganization and to replace some deteriorated maintenance facilities for the existing cavalry unit. These units will be comprised of 179 vehicles and 442

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Camp Garry Owen, Western Corridor, Korea		
4.PROJECT TITLE Tactical Equipment Shop		5.PROJECT NUMBER 24262

11. REQUIREMENT: (Continued)
REQUIREMENT: (Continued)
personnel of which 64 personnel are assigned to the maintenance facilities.
CURRENT SITUATION: The existing cavalry unit is using old, deteriorated, crowded, and inadequate facilities constructed in the 1950s. They are constructed of wood frame with corrugated sheet metal roofing, lack insulation and are not cost effective to maintain and operate. Performing maintenance from these facilities adversely affects morale and unit readiness. There are no facilities for the new Ground Cavalry Troop unit.
IMPACT IF NOT PROVIDED: If this project is not provided, the existing troop will continue to use inadequate maintenance facilities to maintain their combat readiness. The cost to maintain the existing temporary facilities will continue to escalate and become more wasteful. The new troop will not have any maintenance facilities and will be forced to maintain their vehicles in temporary tent-type structures.
ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. This project is not eligible for Combined Defense Improvement Project funding.

12. SUPPLEMENTAL DATA:
A. Estimated Design Data:
(1) Status:
(a) Design Start Date .... Aug 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... 35
(c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
(d) Design Complete Date .... Sep 89

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used Korea

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
(a) Production of Plans and Specifications 67
(b) All Other Design Costs 38
(c) Total Cost 105
(d) Contract 80
(e) In-house 25

(4) Construction Start .... Jun 90
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Camp Garry Owen, Western Corridor, Korea		
4. PROJECT TITLE Tactical Equipment Shop		5. PROJECT NUMBER 24262

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90

3.INSTALLATION AND LOCATION K-16 Airfield Yongsan, Korea	4.PROJECT TITLE Flight Simulator Building

5.PROGRAM ELEMENT 22496A	6.CATEGORY CODE 171	7.PROJECT NUMBER 22035	8.PROJECT COST ($000) Auth 1,500 Approp 1,500

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,213
Flight Simulator Building (Add)	SF	8,976	130.40	(1,170)
Flight Simulator Building (Mod)	SF	600	20.16	(12)
Special Foundation	LS	–	–	(27)
Information Systems	LS	–	–	(4)
Supporting Facilities				149
Electric Service	LS	–	–	(59)
Water, Sewer & Gas	LS	–	–	(18)
Paving, Walks, Curbs & Gutters	LS	–	–	(3)
Storm Drainage	LS	–	–	(17)
Site Improvement (20) Demolition (6)	LS	–	–	(26)
Information Systems	LS	–	–	(10)
Fuel Oil Storage	LS	–	–	(16)
Subtotal				1,362
Contingency (5.00%)				68
Total Contract Cost				1,430
Supervision, Inspection & Overhead (6.50%)				93
Total Request				1,523
Total Request (Rounded)				1,500
Installed Equipment - Other Appropriations				(25,000)

10.Description of Proposed Construction Construct an attack helicopter flight simulator facility to include a simulator bay, computer room, storage and maintenance areas, fire suppressant storage, mechanical, hydraulic and pump rooms. This facility will have a controlled environment (constant temperature and humidity) and other systems including a power conditioner to accommodate the flight simulator. Also modify an existing adjacent utility helicopter simulator facility to provide briefing - debriefing rooms, office and administrative areas. The flight simulator for this project will be funded, transported, installed and tested by other sources (Proponent Agency). A pile foundation is included based upon previous subsurface investigation near the project site. Supporting facilities include utilities, electric service, storm drainage, paving, walks, curbs and gutters, fire protection and alarm systems, information systems, and site improvements. Heating and air conditioning (60 tons) will be provided by self-contained oil-fired system. Demolish three buildings (900 SF).

11. REQUIREMENT: 29,000 SF ADEQUATE: 20,000 SF SUBSTANDARD: None

PROJECT: Construct an attack helicopter flight simulator facility. (New Mission)

REQUIREMENT: This project is required to provide a facility to accommodate

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION K-16 Airfield, Yongsan, Korea		
4.PROJECT TITLE Flight Simulator Building		5.PROJECT NUMBER 22035

11. REQUIREMENT: (Continued)

REQUIREMENT: (Continued)
an attack helicopter flight simulator, enabling pilots to maintain flying (instrument and visual terrain) and gunnery proficiency, and to qualify new aviators on this attack helicopter. The Department of the Army has decided to field an attack helicopter flight simulator in Korea and the Proponent Agency responsible for the fielding will provide and install the simulator in this new facility.

CURRENT SITUATION: Presently, most aviators in Korea are being trained on a UH-1 flight simulator and two UH-60 simulators housed in a recently constructed facility (FY 87 Project 981). These simulators are not compatible with attack-type helicopters. Neither of these simulators is capable of simulating aerial gunnery conditions which is the most important aspect of the attack helicopter flight simulator.

IMPACT IF NOT PROVIDED: If this project is not provided, attack helicopter pilots will not be able to receive the minimum training on the critical tasks required each year, and to maintain proficiency for combat readiness. Limited resources will preclude the completion of the minimum required actual flying hours and aerial gunnery training. This will result in a significant reduction in Eighth US Army's readiness posture, based on having attack helicopter pilots without adequate training.

ADDITIONAL: This project has been coordinated with the installation physical security plan, and required security improvements are included. This project complies with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. An economic analysis has been prepared comparing Construction of a Flight Simulator Building to Status Quo operations. Life cycle costs for each alternative were compared on a net present value basis, as calculated at a ten percent discount rate. New Construction ($39,674 K) is recommended, as more cost effective than Status Quo operations ($47,445 K). This project is not eligible for Combined Defense Improvement Project funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:
  (1) Status:
    (a) Design Start Date .... Apr 89
    (b) Percent Complete As Of 01 January 90 (BDGT YR)...... 100
    (c) Percent Complete As Of 01 October 90 (PROG YR)...... 100
    (d) Design Complete Date .... Dec 89

  (2) Basis:
    (a) Standard or Definitive Design - Yes ___ No X
    (b) Where Design Was Most Recently Used N/A

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION K-16 Airfield, Yongsan, Korea		
4.PROJECT TITLE Flight Simulator Building		5.PROJECT NUMBER 22035

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

		($000)
(3)	Total Cost (c) = (a)+(b) or (d)+(e):	
(a)	Production of Plans and Specifications	80
(b)	All Other Design Costs	42
(c)	Total Cost	122
(d)	Contract	0
(e)	In-house	122

(4) Construction Start .... Apr 91 month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
AH Flight Simulator	APA	91	25000
		TOTAL	25,000

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
MILITARY CONSTRUCTION (PART I)
(DOLLARS ARE IN THOUSANDS)
WORLDWIDE

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Worldwide Various		Minor Construction (MINEXG)				489
	27494	Minor Construction Unspecified		7,603	7,603	491
		SUBTOTAL Minor Construction PART I	$	7,603	7,603	
		Planning and Design (PLANDES)				483
	27492	Planning and Design		89,577	89,577	485
		SUBTOTAL Planning and Design PART I	$	89,577	89,577	
		* TOTAL MCA FOR Worldwide Various	$	97,180	97,180	
**TOTAL WORLDWIDE FOR MCA			$	97,180	97,180	
MILITARY CONSTRUCTION (PART I) TOTAL			$	774,900	774,900	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Planning and Design Worldwide Various	4. COMMAND Planning and Design	5. AREA CONSTRUCTION COST INDEX .01

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89..........	0
C. AUTHORIZATION NOT YET IN INVENTORY..........	893,121
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..........	89,577
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........	116,000
F. PLANNED IN NEXT THREE YEARS..........	266,500
G. REMAINING DEFICIENCY..........	10,000
H. GRAND TOTAL..........	1,375,198

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
000	27492	Planning and Design	89,577	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M	89,577		
		TOTAL	89,577		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :		
000	PLANNING & DESIGN FY 92	116,000
	SUBTOTAL PROJECTS OVER $1M	116,000
	TOTAL	116,000
B. PLANNED NEXT THREE PROGRAM YEARS :		
000	PLANNING & DESIGN	132,000
000	PLANNING & DESIGN	130,000
	SUBTOTAL PROJECTS OVER $1M	262,000
	TOTAL	262,000

10. MISSION OR MAJOR FUNCTIONS:

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0

DD FORM 1 DEC 76 1390 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Planning and Design Worldwide Various

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES: (...CONTINUE)

B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

DD FORM 1 DEC 76 1390C

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY		JAN 90

3. INSTALLATION AND LOCATION: Planning and Design, Worldwide Various

4. PROJECT TITLE: Planning and Design

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
91211A	000	27492	Auth 89,577 Approp 89,577

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				89,577
Planning and Design - MCA				(72577)
Host Nation Design/				()
Construction Surveillance				(17000)
Subtotal				89,577
Contingency (.00%)				
Total Contract Cost				89,577
Supervision, Inspection & Overhead (.00%)				
Total Request				89,577
Total Request (Rounded)				89,577
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction This item provides for advance and final design of construction and for development of standards and criteria for Army facilities. This item also provides for design and construction management services for projects funded by foreign nations where US Forces are the sole or primary user as authorized by 10 USC 2807.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None

PROJECT: Funds requested are required for advance and final design of regular MCA and minor construction projects, including technical evaluation studies of value engineering, and for continuation of development of standard plans, and to represent US interests during the planning, design and construction of projects funded by foreign governments when US Forces are sole or primary users. These funds are required for final design of projects in the FY 1991 program and for final design of projects in FY 1992 and to initiate concept design for FY 1993 program. Development of standards and criteria is the preparation of standard design for repetitive type facilities, manuals and guide specifications for use in the design of non-repetitive as well as repetitive type facilities. NATO projects for which the Army is the user and the host nation funded program in Japan and Korea supporting all services is growing larger. This item provides for advance and final design

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE JAN 90
3.INSTALLATION AND LOCATION Planning and Design, Worldwide Various		
4.PROJECT TITLE Planning and Design		5.PROJECT NUMBER 27492

11. REQUIREMENT: (Continued)

PROJECT: (Continued)
of construction and for development of standards and criteria for Army facilities. This item also provides for design and construction management services for projects funded by foreign nations where US Forces are the sole or primary user as authorized by 10 USC 2807. The planning and design (P&D) account includes funding to assure that the facilities provided by Host Nation Construction conform to the Services' operational and mission needs and US life safety criteria. The Army is the executive agent for the Department of Defense in the Pacific for this program. Consequently, additional resources (above "normal" project design) are required in P&D. Host Nation Construction in the Pacific has the largest requirement; with increasing participation by Japan and Korea, this construction program now provides nearly all of the US facilities in these countries. The major beneficiaries are the other Services (especially the Marines and Air Force), however, the Army Corps of Engineers is responsible for providing the criteria, reviewing designs and monitoring the construction.

REQUIREMENT: Funds requested are required for advance and final design of MCA projects including minor construction and support of Host Nation Construction efforts.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:
- (a) Design Start Date .... N/A
- (b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A
- (c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A
- (d) Design Complete Date .... N/A

(2) Basis:
- (a) Standard or Definitive Design - Yes ___ No X
- (b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)
- (a) Production of Plans and Specifications .... N/A
- (b) All Other Design Costs .... ______
- (c) Total Cost .... ______
- (d) Contract .... N/A
- (e) In-house .... N/A

(4) Construction Start .... N/A
month & year

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Planning and Design, Worldwide Various		
4. PROJECT TITLE Planning and Design		5. PROJECT NUMBER 27492

12. SUPPLEMENTAL DATA: (Continued)

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

DD FORM 1 DEC 76 1391C

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90
3. INSTALLATION AND LOCATION Minor Construction Worldwide Various	4. COMMAND Military Construction	5. AREA CONSTRUCTION COST INDEX .01

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	0	0	0	0	0	0	0	0	0	0
B. END FY 95	0	0	0	0	0	0	0	0	0	0

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE..........	0 AC
B. INVENTORY TOTAL AS OF 30 SEP 89......................................	0
C. AUTHORIZATION NOT YET IN INVENTORY..................................	139,809
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..............................	7,603
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..........................	16,000
F. PLANNED IN NEXT THREE YEARS..	62,000
G. REMAINING DEFICIENCY...	20,000
H. GRAND TOTAL..	245,412

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE		COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
BBB	27494	Minor Construction Unspecified		7,603	00/00	00/00
		SUBTOTAL PROJECTS OVER $1M		7,603		
			TOTAL	7,603		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE		COST ($000)
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :			
BBB	Minor Construction Unspecified		16,000
	SUBTOTAL PROJECTS OVER $1M		16,000
		TOTAL	16,000
B. PLANNED NEXT THREE PROGRAM YEARS :			
BBB	MINOR CONSTRUCTION FY 95		20,000
BBB	MINOR CONSTRUCTION FY 93		17,000
BBB	MINOR CONSTRUCTION FY 94		17,000
BBB	Exercise Related Construction		4,000
	SUBTOTAL PROJECTS OVER $1M		58,000
		TOTAL	58,000

10. MISSION OR MAJOR FUNCTIONS:

DD FORM 1 DEC 76 1390

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE JAN 90

INSTALLATION AND LOCATION: Minor Construction Worldwide Various

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90

3. INSTALLATION AND LOCATION Minor Construction, Worldwide Various	4. PROJECT TITLE Minor Construction Unspecified

5. PROGRAM ELEMENT 91212A	6. CATEGORY CODE 000	7. PROJECT NUMBER 27494	8. PROJECT COST ($000) Auth 7,603 Approp 7,603

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				7,603
Minor Construction Unspecified				(7603)
Subtotal				7,603
Contingency (.00%)				
Total Contract Cost				7,603
Supervision, Inspection & Overhead (.00%)				
Total Request				7,603
Total Request (Rounded)				7,603
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Unspecified minor construction projects which have a funded cost of $1,000,000 or less, including construction, alteration, or conversion of permanent or temporary facilities as authorized under Title 10 U.S.C.2805.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None

REQUIREMENT: This is needed to provide for unspecified projects for which the need cannot reasonably be foreseen nor justified in time to be included in this Military Construction, Army program.

ADDITIONAL: These projects will be coordinated with the installation physical security plan, and required security improvements will be included when requested. These projects comply with the scope and design criteria of DOD 4270.1-M, "Construction Criteria," that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instruction (AEI), "Design Criteria," dated 14 July 1989. These projects will not be eligible for Host Nation funding.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 90
3. INSTALLATION AND LOCATION Minor Construction, Worldwide Various		
4. PROJECT TITLE Minor Construction Unspecified		5. PROJECT NUMBER 27494

12. SUPPLEMENTAL DATA: (Continued)

A. Estimated Design Data: (Continued)

(1) Status: (Continued)

(a) Design Start Date .... N/A
(b) Percent Complete As Of 01 January 90 (BDGT YR)...... N/A
(c) Percent Complete As Of 01 October 90 (PROG YR)...... N/A
(d) Design Complete Date .... N/A

(2) Basis:

(a) Standard or Definitive Design - Yes ___ No X
(b) Where Design Was Most Recently Used N/A

(3) Total Cost (c) = (a)+(b) or (d)+(e): ($000)

(a) Production of Plans and Specifications .... N/A
(b) All Other Design Costs .... ______
(c) Total Cost .... ______
(d) Contract .... N/A
(e) In-house .... N/A

(4) Construction Start .... N/A
month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	None		

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
ARMY FAMILY HOUSING
NEW CONSTRUCTION (PART IIA)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Hawaii		Hawaii Various (WESTCOM)			
	30275	Family Housing New Construction	15,000	15,000	23
		SUBTOTAL Hawaii Various PART IIA	$ 15,000	15,000	
		* TOTAL AFH FOR Hawaii	$ 15,000	15,000	
**TOTAL INSIDE THE UNITED STATES FOR AFH			$ 15,000	15,000	
MILITARY CONSTRUCTION (PART IIA) TOTAL			$ 15,000	15,000	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
ARMY FAMILY HOUSING
POST ACQUISITION CONSTRUCTION (PART IIB)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Arizona		Fort Huachuca (ISC)				
	17661	Family Housing Improvements		1,150	1,150	33
		SUBTOTAL Fort Huachuca PART IIB	$	1,150	1,150	
		* TOTAL AFH FOR Arizona	$	1,150	1,150	
California		Fort Ord (FORSCOM)				
	32966	Family Housing Improvements		2,700	2,700	33
		SUBTOTAL Fort Ord PART IIB	$	2,700	2,700	
		* TOTAL AFH FOR California	$	2,700	2,700	
District of Columbia		Walter Reed AMC (HSC)				
	21797	Family Housing Improvements		440	440	34
		SUBTOTAL Walter Reed AMC PART IIB	$	440	440	
		* TOTAL AFH FOR District of Columbia	$	440	440	
Hawaii		Pearl Harbor Area Housing (WESTCOM)				
	14461	Family Housing Improvements		3,300	3,300	34
		SUBTOTAL Pearl Harbor Area Housing PART IIB	$	3,300	3,300	
		* TOTAL AFH FOR Hawaii	$	3,300	3,300	
Kansas		Fort Leavenworth (TRADOC)				
	30287	Family Housing Improvements		10	10	35
		SUBTOTAL Fort Leavenworth PART IIB	$	10	10	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
ARMY FAMILY HOUSING
POST ACQUISITION CONSTRUCTION (PART IIB)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Kansas		Fort Riley (FORSCOM) (Cont.)				
	30211	Family Housing Improvements		4,000	4,000	35
		SUBTOTAL Fort Riley PART IIB	$	4,000	4,000	
		* TOTAL AFH FOR Kansas	$	4,010	4,010	
Maryland		Aberdeen Proving Ground (AMC)				
	5037	Family Housing Improvements		2,800	2,800	36
		SUBTOTAL Aberdeen Proving Ground PART IIB	$	2,800	2,800	
		* TOTAL AFH FOR Maryland	$	2,800	2,800	
New Jersey		Fort Dix (TRADOC)				
	17122	Family Housing Improvements		6,100	6,100	36
		SUBTOTAL Fort Dix PART IIB	$	6,100	6,100	
		* TOTAL AFH FOR New Jersey	$	6,100	6,100	
New York		United States Military Academy (USMA)				
	17625	Family Housing Improvements		1,100	1,100	37
		SUBTOTAL United States Military Academy PART IIB	$	1,100	1,100	
		* TOTAL AFH FOR New York	$	1,100	1,100	
Oklahoma		Fort Sill (TRADOC)				
	26774	Family Housing Improvements		4,500	4,500	38
		SUBTOTAL Fort Sill PART IIB	$	4,500	4,500	
		* TOTAL AFH FOR Oklahoma	$	4,500	4,500	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
ARMY FAMILY HOUSING
POST ACQUISITION CONSTRUCTION (PART IIB)
(DOLLARS ARE IN THOUSANDS)
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Texas		Fort Hood (FORSCOM)			
	9320	Family Housing Improvements	6,500	6,500	38
		SUBTOTAL Fort Hood PART IIB	$ 6,500	6,500	
		* TOTAL AFH FOR Texas	$ 6,500	6,500	
Virginia		Fort Story (TRADOC)			
	7065	Family Housing Improvements	2,500	2,500	39
		SUBTOTAL Fort Story PART IIB	$ 2,500	2,500	
		* TOTAL AFH FOR Virginia	$ 2,500	2,500	
**TOTAL INSIDE THE UNITED STATES FOR AFH			$ 35,100	35,100	

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
ARMY FAMILY HOUSING
POST ACQUISITION CONSTRUCTION (PART IIB)
(DOLLARS ARE IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE		AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PAGE
Germany		Germany Various (USAREUR)				
		Giessen				
	16888	Family Housing Improvements		5,400	5,400	40
		Heidelberg				
	22258	Family Housing Improvements		1,950	1,950	40
		SUBTOTAL Germany Various PART IIB	$	7,350	7,350	
		* TOTAL AFH FOR Germany	$	7,350	7,350	
Japan		Japan Various (USARJ)				
		Sagamihara				
	18848	Family Housing Improvements		1,650	1,650	41
		SUBTOTAL Japan Various PART IIB	$	1,650	1,650	
		* TOTAL AFH FOR Japan	$	1,650	1,650	
**TOTAL OUTSIDE THE UNITED STATES FOR AFH			$	9,000	9,000	
MILITARY CONSTRUCTION (PART IIB) TOTAL			$	44,100	44,100	

All projects in the fiscal year 1991 request are in support of current mission requirements.

1 February 1990

DEPARTMENT OF THE ARMY
ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
SUMMARY

(In Thousands)	
FY 91 Program	$1,554,324
FY 90 Program	$1,453,804

Purpose and Scope

This program provides for the support of the worldwide family housing function within the Department of the Army.

Program Summary

Authorization is requested for:

(1) The performance of certain construction summarized hereafter; and

(2) The appropriation of $1,554,324,000 to fund:

(a) this construction; and

(b) certain other functions already authorized in existing legislation.

Appropriation is requested for $1,554,324,000 as follows:

	($000)
Construction	61,800
Operations and Maintenance, Utilities, Leasing and Debt	1,492,524
TOTAL ARMY FAMILY HOUSING APPROPRIATION	1,554,324
Plus: Reimbursable Authority	16,000
TOTAL ARMY FAMILY HOUSING PROGRAM	1,570,324

1 February 1990

AUTHORIZATION AND APPROPRIATION LANGUAGE
ARMY FAMILY HOUSING
FY 1991

For expenses of family housing for the Army for construction, including acquisition, replacement, addition, expansion, extension, and alteration and for operation and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law, as follows: for Construction [$78,982,000] $61,800,000, for Operation and Maintenance, and Debt Payment [$1,374,822,000] $1,492,524,000 in all [$1,453,804,000] $1,554,324,000. Provided, that the amount provided for construction shall remain available until [September 30, 1994] September 30, 1995.

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
PROGRAM AND FINANCING
CONSTRUCTION

PROGRAM	($000)
Construction of New Housing	15,000
Post Acquisition Construction	44,100
Planning and Design	2,700
TOTAL	61,800
FINANCING	
Budget Authority/Appropriation	61,800

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
PROGRAM AND FINANCING
OPERATION & MAINTENANCE
DEBT PAYMENT

PROGRAM	($000)
Operating Expenses	214,184
Utilities	303,641
Leasing	434,316
Maintenance	540,210
SUBTOTAL	1,492,351
Interest Payments	31
Servicemen's Insurance Premiums	18
SUBTOTAL	1,492,400
Reimbursable Authority	16,000
TOTAL	1,508,400
FINANCING	
Total Program	1,508,524
Less: Reimbursements	-16,000
Less: Portion Applied to Debt Reduction	-124
Budget Authority Appropriation Adjusted	1,492,400

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
PROGRAM AND FINANCING

PROGRAM BY ACTIVITIES	($000)
1. Construction	
a. Construction of New Housing	15,000
b. Post Acquisition Construction	44,100
c. Planning and Design	2,700
TOTAL CONSTRUCTION	61,800
2. Operation, Utilities, Maintenance, Leasing, Interest, and Insurance Premiums	
a. Operation	214,184
b. Utilities	303,641
c. Maintenance of Real Property	540,210
d. Leasing	434,316
e. Interest Payments	31
f. Servicemen's Mortgage Premiums	18
TOTAL O&M AND INTEREST	1,492,400
TOTAL APPROPRIATION	1,554,200
Plus: Reimbursements: O&M&L	+16,000
TOTAL PROGRAM ADJUSTED	1,570,200
BUDGET AUTHORITY	
Appropriation: Construction	61,800
O&M and Debt	1,492,524
TOTAL	1,554,324
Less: Portion applied to Debt Reduction	-124
APPROPRIATION ADJUSTED	1,554,200

Family Housing Construction, Army
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

		Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
Identification code	21-7020-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
01.0101	Construction of new housing	131,859	35,982	15,000	164,876	83,067	40,034
01.0201	Post-Acquisition Construction	72,300	40,000	44,100	67,484	67,232	53,891
01.0301	Planning and design	10,628	3,000	2,700	8,606	21,626	4,165
10.0001	Total	214,787	78,982	61,800	240,966	171,925	98,090
	Financing:						
17.0001	Recovery of prior year obligations				-3,454		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans				-223,312	-185,918	-92,975
21.4009	Reprograming from/to prior year budget pla	-14,669					
22.4001	Unobligated balance transferred to other acc	-6,497			-6,497		
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				185,918	92,975	56,685
25.0001	Unobligated balance lapsing	3,657			3,657		
40.0001	Budget authority (Appropriation)	197,278	78,982	61,800	197,278	78,982	61,800
	Relation of obligations to outlays:						
71.0001	Obligations incurred, net				240,966	171,925	98,090
72.4001	Obligated balance, start of year				348,305	301,308	212,043
73.0001	Obligated balance transferred, net				-600		
74.4001	Obligated balance, end of year				-301,308	-212,043	-127,402
77.0001	Adjustments in expired accounts (net)				-638		
78.0001	Adjustments in unexpired accounts				-3,454		
90.0001	Outlays				283,271	261,190	182,731

Family Housing Construction, Army
Object Classification (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-7020-0-1-051		1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Other services:			
125.003	Contracts	34,622	32,744	30,506
132.001	Land and structures	206,344	139,181	67,584
199.001	Total Direct obligations	240,966	171,925	98,090
999.901	Total obligations	240,966	171,925	98,090

Family Housing Operations and Debt, Army
Program and Financing (in Thousands of dollars)

29 Jan 90

Identification code	21-7025-0-1-051	1989 actual	1990 est.	1991 est.
	Program by activities:			
	Direct program:			
02.0101	Operating expenses	496,632	501,380	517,825
02.0201	Leasing	290,294	319,142	434,316
02.0301	Maintenance of real property	585,061	554,120	540,210
02.0401	Interest payments	49	37	31
02.0501	Mortgage insurance premiums	31	21	18
02.9101	Total direct program	1,372,067	1,374,700	1,492,400
03.0101	Reimbursable Program	11,571	15,600	16,000
10.0001	Total obligations	1,383,638	1,390,300	1,508,400
	Financing:			
	Offsetting collections from:			
11.0001	Federal funds(-)	-2,188	-5,200	-5,400
13.0001	Trust funds(-)		-20	-20
14.0001	Non-Federal sources(-)	-9,383	-10,380	-10,580
22.4001	Unobligated balance transferred to other accounts	-44,504		
25.0001	Unobligated balance lapsing	2,392		
39.0001	Budget authority	1,329,955	1,374,700	1,492,400
	Budget authority:			
40.0001	Appropriation	1,330,693	1,375,000	1,492,650
40.4701	Portion applied to debt reduction(-)	-738	-300	-250
43.0001	Appropriation (adjusted)	1,329,955	1,374,700	1,492,400
	Relation of obligations to outlays:			
71.0001	Obligations incurred, net	1,372,067	1,374,700	1,492,400
72.4001	Obligated balance, start of year	436,659	510,434	527,424
73.0001	Obligated balance transferred, net	600		
74.4001	Obligated balance, end of year	-510,434	-527,424	-585,155
77.0001	Adjustments in expired accounts (net)	-8,984		
90.0001	Outlays	1,289,907	1,357,710	1,434,669

29 Jan 90

Family Housing Operations and Debt, Army
Object Classification (in Thousands of dollars)

Identification code	21-7025-0-1-051	1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Personnel compensation:			
111.101	Full-time permanent	21,316	21,623	22,257
111.301	Other than full-time permanent	3,761	3,822	3,938
111.901	Total personnel compensation	25,077	25,445	26,195
112.101	Personnel Benefits: Civilian personnel	5,824	6,050	6,289
113.001	Benefits for former personnel	255	241	246
121.001	Travel and transportation of persons	1,520	1,566	1,738
122.001	Transportation of things	9,131	9,405	10,440
123.201	Rental payments to others	231,790	319,142	431,663
123.301	Communications, utilities, and miscellaneous changes	289,270	294,466	310,043
124.001	Printing and reproduction	100	103	114
	Other services:			
125.001	Payments to foreign national indirect hire personnel	33,304	37,361	38,643
125.003	Contracts	402,578	342,111	354,251
125.004	Other	348,972	313,861	286,077
126.001	Supplies and materials	11,135	11,469	12,730
131.001	Equipment	13,031	13,422	13,922
143.001	Interest and dividends	80	58	49
199.001	Total Direct obligations	1,372,067	1,374,700	1,492,400
	Reimbursable obligations:			
223.201	Rental payments to others	3,371	7,300	7,540
	Other services:			
225.003	Contracts	4,700	4,800	4,960
225.004	Other	2,500	2,500	2,500
231.001	Equipment	1,000	1,000	1,000
299.001	Total Reimbursable obligations	11,571	15,600	16,000
999.901	Total obligations	1,383,638	1,390,300	1,508,400

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
NEW CONSTRUCTION

(In Thousands)	
FY 91 Program	$15,000
FY 90 Program	$35,982

Purpose and Scope

This program provides for site preparation, construction, and initial outfitting with fixtures and integral equipment of new family housing units and associated facilities such as roads, driveways, walks, utility systems, solar energy systems, and community facilities. This program provides family housing at those installations where the local economy cannot provide adequate support and additional housing is required to help satisfy a housing deficit.

Program Summary

Authorization is requested in FY 91 for:

1. Construction of 138 units of family housing.

2. Appropriation in the amount of $15,000,000 to completely fund these projects.

A summary of the funding program for FY 91 follows:

	Number of Units	Requested Amount ($000)
1. New Family Housing Construction:		
Oahu, Hawaii	138	15,000

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Hawaii Various Hawaii	4. COMMAND US Army Western Command	5. AREA CONSTRUCTION COST INDEX 1.41

6. PERSONNEL STRENGTH:

	PERMANENT			STUDENTS			SUPPORTED			
	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	OFFICER	ENLIST	CIVIL	TOTAL
A. AS OF 30 SEP 89	8642	53801	0	0	0	0	0	0	0	62,443
B. END FY 95	8405	53760	0	0	0	0	0	0	0	62,165

7. INVENTORY DATA ($000)

A. TOTAL ACREAGE.......... 7,404 AC	
B. INVENTORY TOTAL AS OF 30 SEP 89..	679,779
C. AUTHORIZATION NOT YET IN INVENTORY..	66,275
D. AUTHORIZATION REQUESTED IN THIS PROGRAM..	18,300
E. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM..	35,800
F. PLANNED IN NEXT THREE YEARS..	86,500
G. REMAINING DEFICIENCY..	85,000
H. GRAND TOTAL..	971,654

8. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT NUMBER	PROJECT TITLE	COST ($000)	DESIGN STATUS START	COMPLETE
711	30275	Family Housing New Construction	15,000	Turnkey	
711	14461	Family Housing Improvements	3,300	09/87	06/91
		SUBTOTAL PROJECTS OVER $1M	18,300		
		TOTAL	18,300		

9. FUTURE PROJECTS:

CATEGORY CODE	PROJECT TITLE	COST ($000)	
A. INCLUDED IN THE FOLLOWING PROGRAM (FY 92) :			
711	Family Housing New Construction	15,000	Turnkey
711	Family Housing Improvements	20,800	
	SUBTOTAL PROJECTS OVER $1M	35,800	
	TOTAL	35,800	
B. PLANNED NEXT THREE PROGRAM YEARS :			
711	Family Housing New Construction	15,000	Turnkey
711	Family Housing New Construction	15,000	Turnkey
711	Family Housing Improvements	26,600	
711	Family Housing Improvements	29,900	
	SUBTOTAL PROJECTS OVER $1M	86,500	
	TOTAL	86,500	

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROGRAM	2. DATE 1 FEB 90

INSTALLATION AND LOCATION: Hawaii Various Hawaii

10. MISSION OR MAJOR FUNCTIONS:

Provides support and facilities for the following combat forces: 25th Infantry Division, 125th Signal Battalion, Pacific Air Forces, 15th Airbase Wing, CINC Pacific Fleet, and other tenant activities. U. S. Pacific Fleet (CINCPACFLT) supports Naval forces at Pearl Harbor. USAF Major Command (PACAF) and 15th Airbase Wing provide support for (CINCPAC) and other major Air Forces. 125 Signal Battalion provides communication support for the 25th Infantry Division, U.S. Navy, Air Force and DOD activities.

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:

	($000)
A. AIR POLLUTION	0
B. WATER POLLUTION	0
C. OCCUPATIONAL SAFETY AND HEALTH	0

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90

3. INSTALLATION AND LOCATION Hawaii Various, Hawaii	4. PROJECT TITLE Family Housing New Construction

5. PROGRAM ELEMENT 88741A	6. CATEGORY CODE 711	7. PROJECT NUMBER 30275	8. PROJECT COST ($000) Auth 15,000 Approp 15,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				9,912
Family Housing Units (138)	SF	140,600	70.50	(9,912)
Supporting Facilities				3,626
Electric Service	LS	-	-	(440)
Water, Sewer & Gas	LS	-	-	(743)
Paving, Walks, Curbs & Gutters	LS	-	-	(322)
Storm Drainage	LS	-	-	(469)
Site Improvement (1348) Demolition (10)	LS	-	-	(1,358)
Information Systems	LS	-	-	(294)
Subtotal				13,538
Contingency (5.00%)				677
Total Contract Cost				14,215
Supervision, Inspection & Overhead (6.50%)				924
Total Request				15,139
Total Request (Rounded)				15,000
Installed Equipment - Other Appropriations				(0)

10. Description of Proposed Construction Construct 138 Junior Enlisted two and three bedroom dwelling units with attached carports, consisting of variously configured multi-units and/or single buildings. Dwelling units will be factory-built manufactured houses and/or conventionally on-site constructed houses. The design will include wood frame construction, brick veneer or stucco and prefinished wood siding. Supporting facilities include utilities, communications, paving, walks, curbs and gutters, and site improvements. Project will provide kitchen ranges, refrigerators, washers, dryers, garbage disposals, dishwashers, and smoke detectors. Central air conditioning will be installed based on a ventilation feasibility study. At least five percent of dwelling units at each site will be constructed such that they may be easily modified to accommodate handicapped occupants. Development of these housing areas will require additional off-site support for the electrical, water, and sanitary disposal systems; an increase in roadways and access road network; connections to existing county utility systems; special drainage systems; and relocation of ballpark/playground with demolition of associated storage buildings. Turnkey criteria used to procure this project is in compliance with the Federal Manufactured Housing Construction and Safety Standards and the DoD Construction Manual 4270.1-M, dated 1 September 1987. Coordination

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90

3. INSTALLATION AND LOCATION

Hawaii Various, Hawaii

4. PROJECT TITLE Family Housing New Construction	5. PROJECT NUMBER 30275

10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)
with the state of Hawaii, Department of Education, is being conducted to determine if additional school facilities are required.

Grade	No. Bedrooms	Net Area	Proj Factor	$NSF	No. Units	($000) Total Cost
Pearl City Peninsula Area						
JRENL	3	1,200	1.41	50.00	12	1,015
JRENL	2	950	1.41	50.00	48	3,215
Hickam AFB						
JRENL	3	1,200	1.41	50.00	10	846
JRENL	2	950	1.41	50.00	12	804
Helemano MR						
JRENL	3	1,200	1.41	50.00	16	1,353
JRENL	2	950	1.41	50.00	40	2,679
					138	9,912

11. REQUIREMENT: 32,732 FA ADEQUATE: 29,501 FA SUBSTANDARD: 6 FA
PROJECT: Construct 138 family dwelling units at various locations on Oahu for enlisted personnel. (Current Mission)
REQUIREMENT: The consolidated (tri-service) long range family housing deficit for Oahu is 3,444 units. Housing shortages exist primarily in the enlisted personnel category. This deficit is due to junior enlisted service members inability to acquire/rent adequate housing. Because of the large deficit and the scarcity of available land for build-to-lease housing, government construction is considered the most feasible alternative for providing additional housing for lower graded enlisted personnel.
CURRENT SITUATION: This housing is geographically located to support three major installations. Development of private sector housing is extremely restricted, due to already limited availability of land. Military families assigned to the area are required to commute thru heavy traffic corridors from metropolitan areas around Honolulu or resort areas on the North Shore. Although distance traveled is relatively short (10-20 miles), one hour and a half to two hours travel time is normally required due to the volume of traffic. The shortage of adequate civilian sector housing is projected by the State of Hawaii to exceed 40,000 units within the next five years. The rental vacancy rate is among the lowest in the nation at 1.2 percent while the national rate is at 5 percent.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Hawaii Various, Hawaii		
4. PROJECT TITLE Family Housing New Construction		5. PROJECT NUMBER 30275

11. REQUIREMENT: (Continued)

IMPACT IF NOT PROVIDED: If the project is not provided, junior enlisted families will continue to be either involuntarily separated or forced to reside in inadequate housing off-base because of exorbitant rents and competition with civilians for limited housing. Degrading the quality of life for military families will adversely affect job proficiency and retention. This project is essential to alleviate housing deficits for junior enlisted personnel.

MILITARY FAMILY HOUSING JUSTIFICATION	1. DATE OF REPORT (yymmdd) 1990-01-19	2. FISCAL YEAR 1989	REPORT CONTROL SYMBOL DD-A&L(AR)1716
3. DOD COMPONENT Army	4. REPORTING INSTALLATION a. NAME WESTCOM Rollup WESTCO	b. LOCATION	
5. DATA AS OF 09/30/1988			

ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9-E4 (b)	E3-E1 (c)	TOTAL (d)	OFFICER (e)	E9-E4 (f)	E3-E1 (g)	TOTAL (h)
6. TOTAL PERSONNEL STRENGTH	8,642	40,338	13,463	62,443	8,405	39,080	14,670	62,155
7. PERMANENT PARTY PERSONNEL	7,924	39,320	12,941	60,185	7,671	37,080	14,038	58,790
8. GROSS FAMILY HOUSING REQUIREMENTS	8,419	27,181	3,066	38,666	6,189	26,156	3,226	35,571
9. TOTAL UNACCEPTABLY HOUSED(a+b+c)	194	1,496	820	2,510				
a. INVOLUNTARILY SEPARATED	20	205	149	374				
b. UNACCEPTABLY HOUSED-MILITARY ASSETS	1	2	3	6				
c. UNACCEPTABLY HOUSED-COMMUNITY ASSETS	173	1,289	668	2,130				
10. VOLUNTARY SEPARATIONS	121	2,388	375	2,884	117	2,320	402	2,839
11. EFFECTIVE HOUSING REQUIREMENTS	8,298	24,793	2,691	35,782	6,072	23,836	2,824	32,732
12. ADEQUATE HOUSING (a + b)	6,180	23,633	1,932	31,745	5,602	22,163	1,736	29,501
a. UNDER MILITARY CONTROL	3,299	15,479	178	18,956	3,299	15,659	358	19,316
(1) Housed in Existing DOD Owned/Controlled	3,243	15,193	178	18,614	3,299	15,479	178	18,956
(2) Under Contract Approved					0	180	180	360
(3) Vacant	45	227	0	272				
(4) Inactive	11	59	0	70				
b. PRIVATE HOUSING	2,881	8,154	1,754	12,789	2,303	6,504	1,378	10,185
(1) Acceptably Housed	2,868	8,104	1,691	12,663	2,294	6,460	1,328	10,082
(2) Vacant Rental Housing	13	50	63	126	9	44	50	103
13. EFFECTIVE HOUSING DEFICIT *	148	1,198	808	2,155	507	1,601	1,136	3,244
14. PROPOSED PROJECT					0	138	0	138
15. TOTAL HOUSING ASSETS, INCLUDING PROPOSED PROJECT, AS PERCENTAGE OF PROJECTED EFFECTIVE REQUIREMENTS: a. MILITARY					54.33	66.27	12.68	59.43
b. ALL HOUSING					92.26	93.56	61.47	90.55

16. REMARKS (Specify item number)

DD Form 1523, NOV 85   Previous editions are obsolete

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
POST ACQUISITION CONSTRUCTION

	(In Thousands)
FY 91 Program	$44,100
FY 90 Program	$40,000

Purpose and Scope

This program provides for revitalization of family housing consisting of:

alterations, additions, upgrades, renewals or improvements to existing Army family quarters, which will significantly increase the useful life and livability of the units.

Program Summary - FY 91

Authorization is requested for appropriation:

a. Line item authorization to exceed the $40,000 per dwelling unit (adjusted by the area construction factor) statutory funding limitation to:

(1) Upgrade 52 substandard units at Fort Ord, California.

(2) Renew 8 units at Walter Reed AMC, District of Columbia.

(3) Air condition one General Officer Historical Quarters concurrently with a major repair project at Fort Leavenworth, Kansas.

(4) Renew 104 units at Fort Riley, Kansas.

(5) Renew 70 units at Aberdeen Proving Grounds, Maryland.

(6) Renew 120 units at Fort Sill, Oklahoma.

b. Various improvements to existing family quarters with costs less than the statutory fund limitation.

c. Three projects overseas exceeding the $35,000/Unit Administrative limit (MILCON BILL, H.R. Report 100-620, May 88).

(1) Germany

(a) Giessen - 144 Units - $5,400,000 - (avg $37,500/unit)
Improvements and Major Repairs
Performed past 3 years - FY 87-88-89 $200,000.
(Repair Roof 1 bldg/18 units-avg $11,000/unit)
Planned following 3 years - FY 90 $200,000 91-92 $150,000. (Repair Roof (FY 90) 1 Bldg/18 units - avg $11,000/unit. Repair exterior stucco/insulation (FY 92) 1 bldg/18 units - avg $8,300/unit).

1 February 1990

(b) Heidelberg - 54 units - $1,950,000 (avg $36,111/unit)
No improvements or major repairs performed past 3 years or planned next 3 years.

(2) Japan

Sagamihara - 42 units - $1,650,000 (avg $39,286/unit)
Improvement and Major Repairs. Performed past 3 years FY 87 $84,000, FY 88-89 none. (Improvement (ECIP) to insulate 42 units, avg $2,000/unit).
Planned next 3 years - none.

d. Funding provides for whole-house revitalization projects as determined from the ongoing quarters condition assessment study. Work is prioritized based on actual conditions with emphasis on extending quarters useful life by 25 years and reducing the recurring maintenance costs.

A summary of the funding program for Fiscal Year 1991 follows:

Regular Improvements Program ($000)	Requested Authorization Amount ($000)
44,100	44,100

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Various Locations - Continental and Overseas	4.PROJECT TITLE Army Family Housing Post Acquisition Construction

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER AFH	8.PROJECT COST ($000) Auth Approp 44,100

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Post Acquisition Construction Improvements		LS		44,100
Projects qualifying for the Defense Energy Conservation Investment Program (ECIP)		LS		0
TOTAL				44,100

10.Description of Proposed Construction

These projects provide needed revitalization of family housing units that do not meet contemporary criteria for livability. Projects provide for renewal of existing family quarters by upgrading kitchens (to include dishwashers, garbage disposals and range hoods) and bathrooms, installation of new half-baths (where required), installation of central air conditioning/heating systems, exterior storage, carports, vehicle parking, patios and sidewalks.

Selected projects will eliminate the substandard condition in those units currently classified as substandard.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction		5. PROJECT NUMBER

10. DESCRIPTION: (Continued)

11. REQUIREMENTS: The numerous acquisitions of the post war period have left a legacy of houses that are over thirty years old which have been continually used to house our service members. The revitalization requirements of this inventory have increased faster than prior year programs have provided. Consequently, there is continued requirement to revitalize quarters to meet the needs of our service members and protect our initial investment. These units are structurally sound, but age and obsolescence, as contemporary standards have evolved, require that a systematic improvement program be maintained. Units have deteriorated support systems and size/functionality deficiencies that are not adequate for today's family.

IMPACT IF NOT PROVIDED: Family housing units and supporting systems will continue to be used as is with increasing obsolescence and unnecessarily high operating/energy use. Soldiers and their families will continue to live in quarters that are below accepted standards. This affects their duty performance and adversely impacts the Army's mission.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90

3. INSTALLATION AND LOCATION

Various Locations - Continental and Overseas

4. PROJECT TITLE Army Family Housing Post Acquisition Construction	5. PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Arizona			
Fort Huachuca			
(Project Number 17661) Renew Capehart units. Renovate kitchens and bathrooms. Upgrade existing utilities, refinish interiors, and improve the exteriors by constructing patios and sidewalks - 42 units.	1,150		
Installation Total			1,150
California			
Fort Ord			
(Project Number 32966) Upgrade substandard Wherry Housing enlisted quarters to include additions to existing bedrooms, constructing utility rooms, modifying roofing,upgrading and remodeling kitchens and bathrooms and improvements to the existing heating system. Exterior improvements include replacement of the gas, water and sewer laterals and general grading improvements - 52 units (Separate DD Form 1391 is attached).	2,700		
Installation Total			2,700

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction		5. PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
District of Columbia			
Walter Reed AMC			
(Project Number 21797) Renew family housing quarters by renovating kitchens, bathrooms and living rooms. Upgrade electrical system. Replace existing heating systems with central heating and cooling system. Provide additional bathrooms and closets, and remove asbestos - 8 units (Separate DD Form 1391 is attached).	440		
Installation Total			440
Hawaii			
Pearl Harbor Area Housing			
(Project Number 14461) Renew junior enlisted family housing units by remodeling kitchens and bathrooms, upgrading the electric system and installing fire escape windows - 100 units.	3,300		
Installation Total			3,300

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction	5. PROJECT NUMBER	

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Kansas Fort Leavenworth (Project Number 30287) Improve General Officer Historical Quarters by installing central air-conditioning. This project will be accomplished concurrently with a maintenance and repair (M&R) project to replace a failing heating system (22.4K), and to remove asbestos (10.6K) - 1 unit. Note: Subtotal M&R and improvements = 43.0K. (Separate DD Form 1391 is attached).	10		
Installation Total			10
Fort Riley (Project Number 30211) Renew family quarters by renovating bathrooms and kitchens, including installation of dishwashers. Provide soundproofing between apartment walls. Upgrade electrical systems. Replace built-up roofs with gable roofs. Provide off-street parking - 104 units (Separate DD Form 1391 is attached).	4,000		
Installation Total			4,000

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction		5. PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Maryland			
Aberdeen Proving Ground (Project Number 5037)	2,800		
Renew 36 Wherry units, 10 senior enlisted, and 24 company grade units by adding 1/2 baths, storage areas and central air conditioning. Upgrade the heating and electrical system. Exterior improvements including patios, fencing, additional parking spaces and storage sheds - 70 units (Separate DD Form 1391 is attached).			
Installation Total			2,800
New Jersey			
Fort Dix (Project Number 17122)	6,100		
Improve family housing units by installing self-contained central air conditioning including all supporting electrical upgrades - 892 units. Note: These units will not be affected by pending base closure actions.			
Installation Total			6,100

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction		5. PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
New York			
United States Military Academy			
(Project Number 17625)	1,100		
Improve senior officer quarters by renovating bathrooms, kitchens and installing undercounter dishwashers. Upgrade electrical system. Replace existing plumbing and all interior lighting and appliance circuits. Remove and replace all defective plaster walls and ceilings. Widen driveways and provide garage doors as required. Provide suitable laundry/storage areas in existing basements - 28 units.			
Installation Total			1,100

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90

3. INSTALLATION AND LOCATION

Various Locations - Continental and Overseas

4. PROJECT TITLE

Army Family Housing Post Acquisition Construction

5. PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Oklahoma			
Fort Sill			
(Project Number 26774)	4,500		
Renew enlisted and field grade officer historical quarters by renovating kitchens, dining, and utility areas. Upgrade electrical circuits. Add 3/4 baths. Provide storage space, patio areas and partitions in multi-stall garages - 120 units (Separate DD Form 1391 is attached).			
Installation Total			4,500
Texas			
Fort Hood			
(Project Number 9320)	6,500		
Renew enlisted quarters in the Pershing Park housing area. Renovate kitchens and baths, including new light fixtures. New entrance doors, patios, carports, and bus stop shelters. Replace windows, enclose hot water heaters, lower and insulate cathedral ceilings, install exterior steel siding - 222 units.			
Installation Total			6,500

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION

Various Locations - Continental and Overseas

4.PROJECT TITLE Army Family Housing Post Acquisition Construction	5.PROJECT NUMBER

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Virginia Fort Story (Project Number 7065) Renew Capehart units by renovating 148 kitchens and constructing 108 1/2 bathrooms. Interior work to include new floor, wall and ceiling finishes, new light fixtures and additional outlets. Support facilities include providing additional parking space and minimal landscaping - 148 units.	2,500		
Installation Total			2,500
USA Total	35,100		35,100

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Post Acquisition Construction	5. PROJECT NUMBER	

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project	Post Acquisition Construction	ECIP	CWE ($000) Total
Germany (Note: all projects are priced at $1 = 2.03. DM)			
Giessen (Project Number 16888) Renew quarters by renovating kitchens, including dishwashers and range hood exhaust fans. Modernize baths. Replace heating systems and install thermostatic valves as required. Upgrade electrical and plumbing systems. Refinish interior walls, ceilings, and floors - 144 units.	5,400		
Installation Total			5,400
Heidelberg (Project Number 22258) Renew quarters by renovating kitchens, including dishwashers, range hoods and exhaust fans. Modernize baths. Replace heating systems and install thermostatic valves as required. Upgrade electrical and plumbing systems. Refinish interior walls, ceilings, and floors -54 units	1,950		
Installation Total			1,950
Germany Total			7,350

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90
3.INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4.PROJECT TITLE Army Family Housing Post Acquisition Construction	5.PROJECT NUMBER	

DESCRIPTION OF WORK TO BE ACCOMPLISHED

Country/State Installation and Project

	Post Acquisition Construction	ECIP	CWE ($000) Total
Japan (Note: all projects are priced at $1 = 149.05. YEN)			
Sagamihara (Project Number 18848) Renew quarters by renovating kitchens and baths, reconfigure bedrooms. Construct stairways, foyer, powder, laundry and utility rooms. Provide additional sound proofing and upgrade utility systems - 42 units.	1,650		
Installation Total			1,650
Japan Total			1,650
Overseas Total			9,000
Total USA and Overseas	44,100		44,100

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Fort Ord, California	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER 32966	8.PROJECT COST ($000) Auth 2,700 Approp 2,700

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				2,248
New Roofing	EA	52	7,215	(375)
Remodel Bathrooms	EA	52	7,185	(374)
Remodel Kitchens	EA	52	4,263	(222)
Additions to Existing Bedrooms	EA	52	3,654	(190)
Utility Room Construction	EA	52	11,406	(593)
See Cost Estimates (Continued)				(494)
Supporting Facilities				83
Electric Service	LS	-	-	(30)
Paving, Walks, Curbs & Gutters	LS	-	-	(43)
Information Systems	LS	-	-	(10)
Subtotal				2,331
Contingency (10.00%)				233
Total Contract Cost				2,564
Supervision, Inspection & Overhead (6.00%)				154
Total Request				2,718
Total Request (Rounded)				2,700
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Upgrade 52 substandard junior enlisted two and three bedroom housing units to adequate standards by renovating kitchens and bathrooms, additions to existing bedrooms and utility rooms, construct new roofing, paint interior and exterior of units, modify heating systems, general grading improvements, replace gas, water and sewer laterals.

11. REQUIREMENT: 10,338 FA ADEQUATE: 8,756 FA SUBSTANDARD: 596 FA

PROJECT: Modernization of 52 substandard Wherry housing units, including room additions and utility laterals.

REQUIREMENT: Project is needed in order to upgrade existing substandard family housing to meet authorized space allowance for enlisted personnel, to eliminate health and safety hazards, and to comply with electrical, heating, and plumbing codes.

CURRENT SITUATION: These Wherry family housing quarters are assigned to enlisted grades E-4 and lower. Method of drawing combustion air for furnaces and water heaters does not meet current health and safety codes. Water heater pressure relief valve piping is discharged into washing machine drain in kitchens, a scalding hazard; 30A electrical service is easily overloaded when additional appliances are connected. Living areas are below authorized space allowances, and storage space is nonexistent. Clothes dryers cannot be

1. COMPONENT ARMY	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA**	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Fort Ord, California		
4. PROJECT TITLE Family Housing Improvements		5. PROJECT NUMBER 32966

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Asbestos Removal	EA	52	3,220	167
Paint Exterior & Interior	EA	52	1,746	91
Modify Heating System	EA	52	2,857	149
General Grading Improvements	SY	2,400	2.50	6
Replace Gas, Water, Sewer Lat	LF	2,100	38.50	81
			Total	494

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

installed because of inadequate electrical service and lack of space. NOTE: Of the 596 quarters identified as substandard at Ft Ord, this project upgrades 52 units. A contract to upgrade 421 units was awarded in FY 89. The remaining 123 units are to be programmed for upgrade in FY 92.

IMPACT IF NOT PROVIDED: Continued use of these quarters, which are not up to current fire, electrical, and plumbing standards, places the government in an untenable position should injury occur because of these health and safety deficiencies. Occupants cannot utilize standard appliances such as clothes dryers, microwave ovens, and mixers because of substandard electrical service and insufficient space.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Walter Reed AMC, District of Columbia	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER 21797	8.PROJECT COST ($000) Auth 440 Approp 440

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				332
FH Off, Bldg 19	EA	1	38,940	(39)
FH Off, Bldg 21	EA	1	42,452	(42)
FH Off, Bldg 22	EA	1	33,915	(34)
FH Off, Bldg 25	EA	1	52,758	(53)
FH Off, Bldg 26	EA	1	42,452	(42)
See Cost Estimates (Continued)				(122)
Supporting Facilities				42
Electric Service	LS	-	-	(35)
Asbestos Removal	LS	-	-	(7)
Subtotal				374
Contingency (10.00%)				37
Total Contract Cost				411
Supervision, Inspection & Overhead (6.00%)				25
Total Request				436
Total Request (Rounded)				440
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Renovate and modernize eight officer family housing quarters at Walter Reed which were purchased in 1920 and 1922. Renovate kitchens, bathrooms and living rooms to current standards. Upgrade electrical service, replace existing heating systems with central heating and cooling systems (HVAC), providing additional bathrooms, closets and removal of asbestos.

11. REQUIREMENT: 640 ADEQUATE: 233 SUBSTANDARD: None

PROJECT: Modernize 8 family housing units by renovating kitchens, bathrooms and living rooms to current standards. Upgrade electric service, replace heating system with central heating and cooling (HVAC), provide additional closets, and remove asbestos.

REQUIREMENT: This project is required to upgrade and modify existing rooms as necessary to improve living conditions, functional arrangement and appearance of these quarters. New fixtures, finishes and equipment are required to reduce maintenance costs and improve energy efficiency by eliminating window air conditioners. This project will improve these existing family housing quarters based on current standards.

CURRENT SITUATION: Existing structures, including kitchen and bathroom

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90
3.INSTALLATION AND LOCATION Walter Reed AMC, District of Columbia		
4.PROJECT TITLE Family Housing Improvements		5.PROJECT NUMBER 21797

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
FH Off, Bldg 29	EA	1	42,452	42
FH Off, Bldg 30	EA	1	40,197	40
FH Off, Bldg 35	EA	1	40,197	40
			Total	122

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

fixtures, are undesirable in appearance, worn and difficult to maintain. Numerous plaster walls and ceilings are cracked and wood framing/trim boards are water damaged. Electrical service is inadequate for the building requirements. Existing air-conditioning consists of multiple window units which are inefficient. Closet space and number of bathrooms are inadequate based on current standards.

IMPACT IF NOT PROVIDED: If improvements are not undertaken, occupants will continue to live in an undesirable environment. High maintenance and operation costs will continue to be incurred by the Government due to inefficiency/age of fixtures and appliances. Occupants will also continue to use energy inefficient window air-conditioning units.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Fort Leavenworth, Kansas	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER 30287	8.PROJECT COST ($000) Auth Approp 10

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				8
Central Air Conditioning	EA	1	7,500	(8)
Subtotal				8
Contingency (5.00%)				
Total Contract Cost				8
Supervision, Inspection & Overhead (6.00%)				1
Total Request				9
Total Request (Rounded)				10
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Install central air-conditioning in Building 330, a General Officer Quarters, located at 2 Sumner Place. This project will be accomplished concurrently with a maintenance and repair project to replace a failing heating system ($22.4K), and remove asbestos ($10.6K). The subtotal for the M&R is $33.0K. The total concurrent M&R and Improvements is $43.0K per unit.

11. REQUIREMENT: 1 FA ADEQUATE: None SUBSTANDARD: None

PROJECT: This project will provide central air-conditioning to 1 General Officer Quarters. This building is a 4976 SF structure built in 1911 and located in the Fort Leavenworth National Historic District.

REQUIREMENT: The provision of central air-conditioning is an authorized improvement to Army Family housing in this geographic area. The work can best be accomplished both economically and functionally if done in conjunction with the related M&R project to repair the heating system.

CURRENT SITUATION: The house is presently being cooled by occupant owned window air conditioners. Damage to windows and adjacent walls is being caused by the weight of, and the release of condensation from these units.

IMPACT IF NOT PROVIDED: The house will continue to be cooled by energy inefficient window air-conditioners and will not conform to Army policy to

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90

3. INSTALLATION AND LOCATION

Fort Leavenworth, Kansas

4. PROJECT TITLE Family Housing Improvements	5. PROJECT NUMBER 30287

11. REQUIREMENT: (Continued)
IMPACT IF NOT PROVIDED: (Continued)
provide central air-conditioning in all family quarters.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Fort Riley, Kansas	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER 30211	8.PROJECT COST ($000) Auth 4,000 Approp 4,000

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,265
Kitchens	EA	104	7,171	(746)
Baths	EA	104	4,682	(487)
Roof (Incl Gutters & Downspouts)	EA	104	3,300	(343)
Siding	EA	104	1,230	(128)
Misc. Mods	EA	104	8,670	(902)
See Cost Estimates (Continued)				(659)
Supporting Facilities				150
Electric Service	LS	-	-	(44)
Paving, Walks, Curbs & Gutters	LS	-	-	(106)
Subtotal				3,415
Contingency (10.00%)				342
Total Contract Cost				3,757
Supervision, Inspection & Overhead (6.00%)				225
Total Request				3,982
Total Request (Rounded)				4,000
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Whole house renewal of 104, enlisted three bedroom, wood frame, brick veneer Capehart dwelling units constructed in 1959 in the Ellis Heights area. These units do not meet present day criteria for livability. Work includes: kitchen and bathroom modernization, installing dishwashers, soundproofing walls between apartments, an electrical upgrade to meet current standards, and installation of gas and electric meter drops. Site work includes additional off-street parking. Built-up roofs will be replaced by gable roofs.

11. REQUIREMENT: 7,675 FA ADEQUATE: 7,444 FA SUBSTANDARD: 146 FA

PROJECT: Modernization of each dwelling unit in the Ellis Heights area at Fort Riley.

REQUIREMENT: Proposed project is required to improve 104 existing 31-year old dwelling units to enhance the livability and materially extend the useful life of the units consistent with good property management philosophy.

CURRENT SITUATION: The Ellis Heights units are 31-years old and have had only minor repairs and maintenance since initial construction. The kitchens and bathrooms are worn out and require more than quick-fix type repairs. Replacement of counters and cabinets, most fixtures, and exhaust fans are needed. Fixtures will be replaced on an as needed basis. The current

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Fort Riley, Kansas		
4. PROJECT TITLE Family Housing Improvements		5. PROJECT NUMBER 30211

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
Shelters	EA	52	2,073	108
Install Electrical Panel	EA	104	5,294	551
			Total	659

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued)

electrical system lacks enough receptacles, is overloaded, and is inadequately grounded. Kitchen area task lighting is poor to nonexistent. Each unit has only one off-street parking space. Each eight-plex provided two additional off-street spaces for visitors. All other vehicles are parked along the street resulting in traffic congestion with drivers having a difficult time seeing children that may dart out from between the parked cars. A storm shelter is important in the Fort Riley area as Kansas has the third highest incidence of tornadoes nationwide. Ellis Heights units are slab-on-grade and do not have needed protective areas for occupants to go to during severe weather warnings. Approximately 70 percent of the people in the local communities have protection from severe storms (basements, cellars, etc). Structural reinforcement of a storage area inside the quarters will provide the necessary protection without requiring occupants to leave the premises during severe weather. All of the Ellis Heights buildings have flat, built-up roofs. Many leaks have developed and attempts to repair have been unsuccessful. Installation of gable roofs with asphalt shingles will remove the condition, avoiding costly interior water damage. NOTE: Of the 146 quarters identified as substandard, 144 are in the process of being upgraded. The remaining two units will be demolished.

IMPACT IF NOT PROVIDED: The bathroom and kitchen renovations are long overdue. If a total renovation is not accomplished, the work will need to be done on a piecemeal basis over the next several years, resulting in a much higher cost to the Government, and with continued disruption of occupants. Failure to upgrade the electrical system will result in continued safety hazards and inadequate numbers of electric outlets. Failure to provide additional parking will continue to expose children and families to serious injury or death due to vehicle congestion, poor visibility, and slow response time of emergency vehicles. Failure to provide protective shelters may result in death or injury to family housing occupants during severe storms at Fort Riley.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88742A	6.CATEGORY CODE 711	7.PROJECT NUMBER 5037	8.PROJECT COST ($000) Auth 2,800 Approp 2,800

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				1,782
Modernize FH Units	FA	70	17,490	(1,224)
Upgrade HV & Add A/C	FA	70	6,857	(480)
Patios w/Fence & Storage Sheds	FA	46	1,328	(61)
Privacy Fencing/Storage Sheds	FA	24	720	(17)
Supporting Facilities				622
Electric Service	LS	-	-	(308)
Paving, Walks, Curbs & Gutters	LS	-	-	(308)
Trash Enclosures	LS	-	-	(6)
Subtotal				2,404
Contingency (10.00%)				240
Total Contract Cost				2,644
Supervision, Inspection & Overhead (6.00%)				159
Total Request				2,803
Total Request (Rounded)				2,800
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Whole house renewal of 70 junior and senior enlisted and company grade officer quarters built in 1952, 1939 and 1952 respectively, and associated real property work. The family housing units in this project are located in the 2000 block, Area 8, Aberdeen Area, and areas 26, 27, 28, Grant Court and Commissary Row, Edgewood Area, of Aberdeen Proving Ground.

Area 8 has 10 senior NCO quarters. Work will include addition of a half bath, weatherizing sunporch, upgrade of heating system to include air conditioning, attic fans, trash can enclosures and upgrade of electrical service w/increased capacity.

Area 26 has 24 company grade quarters. Work will include providing a half bath, increased interior storage, sound attenuation between walls, upgrade of heating system to include air conditioning, outside storage, patio privacy/fencing, 36 parking spaces, cover trim and gable ends with vinyl, attic fans, and upgrade electrical service.

Areas 27 and 28 have 36 NCO quarters. Work will include patio doors, patios w/privacy fencing for terrace apartments, upgrade of heating system to include air conditioning, outside storage, attic fans, 18 additional parking spaces, upgrade electrical service and install sound attenuation between party

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Aberdeen Proving Ground, Maryland		
4. PROJECT TITLE Family Housing Improvements		5. PROJECT NUMBER 5037

walls/apartments.

11. REQUIREMENT: 2,328 FA ADEQUATE: 1,867 FA SUBSTANDARD: 564 FA

PROJECT: Modernization of Wherry, senior NCO and company grade family quarters to bring units up to standards of adequacy by increasing square footage and storage area, upgrading utilities, providing air conditioning and patios w/privacy fencing, and constructing safe adequate parking.

REQUIREMENT: This project is required to upgrade to current standards, 70 family quarters. Project includes ten senior NCO quarters, Area 8, constructed in 1939; 24 company grade quarters, Area 26, constructed in 1952; and 36 Wherry units (NCO), Areas 27 and 28, Grant Court, constructed in 1952. Units in this project have inadequate living and storage space for today's appliances, furnishings and life style in general. Parking is required to eliminate a serious hazard of occupants crossing a major thoroughfare to get to their parked vehicles. This project will promote safety, convenience and provide a more pleasant environment.

CURRENT SITUATION: Occupants are living in extremely cramped quarters with insufficient storage space, inadequate utility systems with no air conditioning and unsafe parking due to the requirement to cross a busy street to get to their cars. In general the amenities provided by economy housing are lacking. NOTE: Of the 564 quarters identified as substandard, 297 will be demolished upon completion of an ongoing construction project. The remaining 267 units will be upgraded or replaced based on the results of a life cycle cost analysis.

IMPACT IF NOT PROVIDED: Delay in accomplishment of this project will result in soldiers and their families continuing to live in uncomfortable, inadequately sized family housing which is degrading and demoralizing. Retention of qualified soldiers is diminished by these poor housing conditions.

1.COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2.DATE 1 FEB 90

3.INSTALLATION AND LOCATION Fort Sill, Oklahoma	4.PROJECT TITLE Family Housing Improvements

5.PROGRAM ELEMENT 88724A	6.CATEGORY CODE 711	7.PROJECT NUMBER 26774	8.PROJECT COST ($000) Auth 4,500 Approp 4,500

9.COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Primary Facility				3,863
300 Area Duplexes	FA	12	24,982	(300)
Quarters 321	FA	1	28,313	(28)
Quarters 348	FA	1	20,096	(20)
Duplex 361	FA	2	19,429	(39)
400 Area Duplexes	FA	18	33,198	(598)
See Cost Estimates (Continued)				(2,878)
Subtotal				3,863
Contingency (10.00%)				386
Total Contract Cost				4,249
Supervision, Inspection & Overhead (6.00%)				255
Total Request				4,504
Total Request (Rounded)				4,500
Installed Equipment - Other Appropriations				(0)

10.Description of Proposed Construction Whole house renewal of 30 junior NCO and 90 field grade officer quarters constructed from 1870 to 1940. This is the second of two phases for renewal of 233 family housing quarters. Work includes improved kitchen, dining, and utility areas. Project will add counter space, cabinets, garbage disposals, range hoods, and dishwashers to the kitchens; add exhaust fans, linen storage, ceramic tiles, replace tubs, lavatories, commodes, and floor coverings in existing bathrooms; replace electric outlet for dryers, install dryer vents and washer connections, and add overhead cabinets in the utility areas; add storage space, patio area, partitions in multi-stall garages and exterior electrical outlets; and add 3/4 baths to the duplex units in the 300, 1800 and 1900 areas. These units are all located within a historical district. Work has been coordinated with the State Historical Preservation Office.

11. REQUIREMENT: 7,897 FA ADEQUATE: 7,897 FA SUBSTANDARD: None

PROJECT: Renewal of military family housing dwelling units.

REQUIREMENT: This project is required to modernize obsolete family housing quarters and to provide the military member and his family adequate living quarters.

CURRENT SITUATION: The existing kitchens have insufficient work areas for

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 FEB 90
3. INSTALLATION AND LOCATION Fort Sill, Oklahoma		
4. PROJECT TITLE Family Housing Improvements		5. PROJECT NUMBER 26774

9. Cost Estimates (Continued)

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facility (Continued)				
500/600 Area Four-Plexes	FA	72	34,808	2,506
1800/1900 Area Duplexes	FA	14	26,591	372
			Total	2,878

11. REQUIREMENT: (Continued)

CURRENT SITUATION: (Continued) appliances such as microwave ovens, electric fry pans, portable dishwashers, and refrigerators. Present baths have antiquated plumbing, old tubs, insufficient electrical outlets, baths without showers and flush valve type commodes. The utility areas require improvement of dryer vents and electrical outlets. Presently there are 4 bedroom units with only one bath, limited linen, pantry, closet and storage space. The quantity of exterior electrical outlets is insufficient to support outdoor electrical tools and appliances.

IMPACT IF NOT PROVIDED: If this project is not provided, service members will continue to live in quarters with outdated kitchens and bathrooms requiring abnormally high maintenance. These units are inadequate by current living standards and do not provide authorized basic amenities. Expenditures for basic maintenance and operation will continue to increase. The quality of life of soldiers and their families will continue to suffer and existing potential health and safety hazards of these deteriorating quarters will remain uncorrected.

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
PLANNING AND DESIGN

(In Thousands)	
FY 91 Program	$2,700
FY 90 Program	$3,000

Purpose and Scope

This program provides for working drawings, specifications, cost estimates, project planning reports, final design drawings of family housing construction projects, and review of construction proposals. This includes the use of architectural and engineering services in connection with any new family housing or post acquisition construction and costs incurred in developing requests for proposals.

Program Summary

Appropriation and authorization of $2,700,000 in FY 91 to fund this construction planning and design is required. These funds will be utilized to plan for and design future year new construction projects, improvements projects, energy conservation investment projects, and to represent U.S. interests during the planning, design and construction of family housing projects funded by foreign governments when U.S. Forces are sole or primary users.

The family housing construction and improvements program is recognized to be one of the most beneficial investments for improving the quality of life of soldiers and their families.

The FY 91 planning and design funds provide for final design of FY 92 projects and concept designs for the FY 93 and FY 94 programs to ensure construction contracts can be awarded in the respective fiscal years. FY 91 design funding will complete the design of FY 91 projects, ensure final (90%) design of FY 92 projects, provide concept (35%) design of FY 93 projects and initiate preliminary design for FY 94.

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
RENTAL GUARANTEE PROGRAM

	(In Thousands)
FY 1991 Program	0
FY 1990 Program	0

Purpose and Scope

The CONUS Rental Guarantee program is authorized in Section 802 of PL 98-115, 11 October 1983, Section 801, PL 99-167, Section 2713, PL 99-661 and Section 2307, PL 100-180. It permits the Army to guarantee 97 percent occupancy of housing units constructed at CONUS locations.

Section 802 Housing Program

Three locations (1,100 units-Forts Rucker, Campbell, Hood) were awarded; however, the contractors did not perform and the contracts were cancelled. There is no anticipated funding requirement for these rental guarantee projects. We are developing a 200 unit project on Oahu, Hawaii and require $300,000 for administrative and development costs.

PROGRAM SUMMARY

Authorization in FY 91 is required for 1,800 Section 802 units. A summary of the Section 802 program follows:

	FY 89		FY 90		FY 91	
	Authorization Units	Cost $0	Authorization Units	Cost $0	Authorization Units	Cost $0
Section 802	1,800	0	1,800	0	1,800	$300**

SUMMARY: A summary of authorizations and funds required is provided on the following page.

** Funded through O&M account.

ARMY FAMILY HOUSING
Fiscal Year 1991 Section 802 Family Housing Summary
(Dollars in Thousands)

Location	No. of Units	Fiscal Year of Initial Authorization	Date of Award	Date of Full Occupancy	FY 90 Units	FY 91 Units	Appropriation Request
Ft Monmouth, NJ	85	1987			0	0	0
Oahu Consolidated Family Housing Office, HI	1,000	1987			0	0	300
Unallocated	715						
TOTAL 802	1,800	NA	NA	NA	0	100	300*

*Funded through O&M account.

Exhibit FH-5

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
OPERATION AND MAINTENANCE

	(In Thousands)
FY 91 Program	$1,058,035
FY 90 Program	$1,055,500

Purpose and Scope

The operation and maintenance program provides for the costs of government owned family quarters as well as Army controlled housing contributed by foreign countries where Army personnel are stationed. This program comprises the full operating cost of family housing facilities including direct costs and overhead charges for municipal-type services provided by centralized installation administration and support activities. The costs of referrals to off-post housing are included as a function of family housing management when government-controlled housing is fully utilized. Authorization for the family housing operation and maintenance program is in 10 U.S.C. Chapter 169, Subchapter II.

a. Operations Account - Provides the following major functions.

Management - Provides resources for family housing management and housing referral offices and installation administrative support for the family housing function. Includes preparation of requests for housing surveys, condition assessment of existing housing, and project development for family construction and repair projects. Also includes the installation and operation of the Housing Operations Management System (HOMES) to improve housing management.

Services - Provides basic installation service support functions such as refuse collection and disposal, pest control, snow removal and street cleaning. Includes the cost of housing's proportionate share of police and fire protection.

Furnishings - Provides the management, control, moving and handling of furnishings; the maintenance and repair, procurement, and replacement of the existing furnishings inventory.

Miscellaneous - Provides payments to operate non-Department of Defense housing units occupied by Army personnel overseas and funds for German fire insurance payments.

b. Utilities Account - Includes the costs of heat, air conditioning, lights, water and sewer for family housing units. May include the cost to operate boiler and sewer systems when used solely by family housing.

c. Maintenance Account - Provides the following activities required to maintain family housing real property assets:

Dwellings - Includes service calls and routine maintenance, annual repairs and painting; repairing/restoring fire or storm damages; as well as major repair work associated with correcting the backlog of Deferred Maintenance and Repair (DMAR) on family housing units. Also includes the cost of between occupant maintenance and preparation of government owned quarters.

Exterior Utilities - Includes costs for maintenance and repair of sewer and water lines, primary and secondary electric lines, and other exterior utilities exclusively for use by family housing.

Other Real Property - Includes work on grounds, surfaced areas and other real property serving family housing.

Incidental Improvements - Includes low-cost minor (incidental) improvements for less than $3,000 per dwelling unit normally performed concurrent with maintenance and repair projects and also, modifications to quarters to meet the needs of the handicapped individual assigned to the unit.

d. Reimbursement Authority - Provides authority to incur additional costs for services and repair of damages to be reimbursed with collection of payments by occupants and non-Department of Defense agencies.

1 February 1990

Operation and Maintenance Program Summary Highlights

Authorization and appropriation are requested for $1,058,035,000 in FY 91.

	FY 91
a. Operations:	$214,184,000
b. Utilities:	$303,641,000
c. Maintenance:	$540,210,000

The FY 91 operations, utilities, and maintenance programs include the following major initiatives:

o The continued installation, operation, and maintenance of an Army-wide computer system, Housing Operations Management System (HOMES) which is designed to assist in all phases of housing management. Worldwide operation of HOMES will maximize housing utilization by speeding housing placements.

o Resources within this program were transferred to Military Personnel Account (MPA) to support a quality of life policy change. Elective JTR (EJTR) allows soldiers and their families the option of shipping their personal household goods (HHG) to Germany or receive government furnishings, or combination thereof. Implementation of EJTR reduces the requirement for the procurement and moving and handling expenses of government owned furniture.

o The continued effort to identify adequate housing in the community which is affordable for the soldier. Where shortages exist, housing surveys are reviewed and project proposals are developed to request new construction or leasing of additional housing for military families.

o The Army Energy Conservation goal is a reduction of .8% of the existing inventory. This budget supports that goal.

o Quarters Cleaning Initiative (QCI) is a worldwide Quality of Life program. The program has shown an overseas payback because it goes hand-in-hand with a reduction of temporary lodging allowance (TLA) from 10 to 3 days. Due to Congressional direction, QCI will only be implemented at locations where net savings can be documented in CONUS and at TLA locations overseas.

o Initiation of a program to revitalize the family housing inventory by emphasizing accomplishment of all work required to upgrade units to current standards and performing outstanding maintenance and repairs. Result will be an extended life of the quarters, reduced future maintenance costs and a reduction in the time the quarters must be vacated to do the work.

1 February 1990

JUSTIFICATION

OPERATIONS ACCOUNT

FY 90	FY 91
$204,596,000	$214,184,000

The Operations account includes the day-to-day cost of managing and providing services to family housing.

The FY 91 request is computed based on the FY 89 fixed cost requirement of $224,466,900. Changes are derived from prescribed inflation indices and civilian pay raise, additional new housing, and new or changed program initiatives. Audit trails are provided for each of the subaccounts detailing changes to AFH funding requirements.

1 February 1990

MANAGEMENT SUBACCOUNT

FY 90	FY 91
$71,862,000	$80,883,000

The following audit trail identifies the increments necessary to realign the management subaccount which is constrained below the actual FY 89 level of effort ($86,986,100) for housing staff, referral services, housing surveys and project planning.

RECONCILIATION OF CHANGES

	($M)
FY 90 APPROPRIATION	$71.9
Program Adjustments	+7.1
FY 90 REVISED APPROPRIATION	$79.0
Housing Program Growth	+1.1
Inflation Adjustment	+1.5
Civilian Pay Raise	+1.4
FY 90 Annualization of Civilian Pay	+0.7
Foreign Currency Revaluation (DM 1.89 to DM 2.03/$)	-1.7
Program Adjustment	-1.1
FY 91 PRESIDENT'S BUDGET REQUEST	$80.9

The acquisition of 6,316 housing units over the past 3 years, with several hundred acquired at off-post locations was not adquately considered in the FY 90/91 budget preparation. Subsequently, funds were reprogramed from other accounts in order to meet the minimum essential management requirements. This results in the program still being below the FY 89 inflated level of effort without consideration of other program adjustments. Because of this highly visible soldier and family program that requires personalized service in all activities, the management account must be funded at a sufficient level to ensure a high degree of soldier satisfaction and that it does not result in degradation of mission accomplishment and mismanagement of this very important program.

The audit trail of the management subaccount contains adjustments for inflation of non-pay costs, annualization of FY 90 civilian pay raises, price increases, foreign currency revaluation, and management of programs to plan and acquire additional housing assets. Civilian pay raise, foreign currency revaluation, and inflation are computed at the prescribed rates.

There was an average inventory on line increase between FY 89 and FY 91 of 4,682 units. The growth by year is 2,436 from FY 89 to FY 90 and 2,246 from FY 90 to FY 91. The additional new units necessitates a small increase (2.1%) in housing program growth. In spite of this increase, FY 91 level of effort is substantially below FY 89.

1 February 1990

SERVICES SUBACCOUNT

FY 90	FY 91
$55,587,000	$58,203,000

Request is estimated based on the FY 89 level of support ($51,208,800) for refuse collections, fire protection, pest control, etc.

RECONCILIATION OF CHANGES

	($M)
FY 90 APPROPRIATION	$55.6
Internal Program Adjustments	+0.3
FY 90 REVISED APPROPRIATION	$55.9
Housing Program Growth	+0.7
Inflation Adjustment	+2.3
Foreign Currency Revaluation (DM 1.89 to DM 2.03/$)	-0.7
FY 91 PRESIDENT'S BUDGET REQUEST	$58.2

The FY 90 internal program adjustment is due to a shortfall in refuse disposal costs and the continuing need for intensive emphasis on entomology and expansion of termite protection to preserve critical housing assets.

The small increase in the housing program growth (1.3%) provides for refuse collection, street cleaning, fire protection and custodial services in support of the additional new housing inventory. The average inventory on line increased from FY 90 to FY 91 by 2,246 units.

Inflation and foreign currency revaluation is computed at the prescribed rates.

1 February 1990

FURNISHINGS SUBACCOUNT

FY 90	FY 91
$75,530,000	$73,469,000

The furnishings subaccount request is constrained below the FY 89 level of effort ($84,970,400) for the management, control, moving and handling of furnishings and also for the maintenance, repair, procurement of equipment (ranges, refrigerators, washers, dryers, wardrobes) and furniture at foreign and overseas locations, and replacement of the existing furnishings inventory.

RECONCILIATION OF CHANGES

	($M)
FY 90 APPROPRIATION	$75.5
Internal Program Adjustments	-0.1
FY 90 REVISED APPROPRIATION	$75.4
Inflation Adjustments	+2.7
Civilian Pay Raise	+0.8
FY 90 Annualization of Civilian Pay Raise	+0.4
Housing Program Growth	+0.7
Foreign Currency Revaluation (DM 1.89 to DM 2.03/$)	-1.8
Internal transfer to the Leasing Account	-4.6
Partial Restoration of Manpower	+1.9
Program Adjustments	-2.0
FY 91 PRESIDENT'S BUDGET REQUEST	$73.5

This request contains adjustments for inflation of non-pay costs, annualization of FY 90 civilian pay raises, foreign currency revaluation, and housing inventory growth. Civilian pay raise, inflation, and foreign currency revaluation are at the prescribed rates.

Of the 2,246 new dwelling units coming on line in FY 91, only 218 are in foreign countries resulting in minimal housing program growth.

Implementation of elective JTR reduces the requirement for the replacement/procurement of overseas furnishings. However, an increased requirement for the procurement and moving and handling of wardrobes for leased housing overseas requires an internal adjustment of $4.6 million into the Leasing Acount to properly reflect accountability.

Due to a proposed reduction in civilian manpower, a decrement adjustment to the civilian manpower resources of this account was made; however, the manpower spaces were restored, resulting in a shortfall in the funding requirements. Therefore, a partial restoration is required. This restoration is based on command realignment of funding requirements.

1 February 1990

MISCELLANEOUS SUBACCOUNT

FY 90	FY 91
$1,617,000	$1,629,000

The FY 91 request includes sufficient resources for U.S. Embassy support and housing of U.S. soldiers in British Army facilities on permit basis.

	($M)
FY 90 APPROPRIATION	$1.6
Inflation Adjustment	+.1
Foreign Currency Revaluation (DM 1.89 to DM 2.03/$)	-.1
FY 91 PRESIDENT'S BUDGET REQUEST	$1.6

The FY 91 miscellaneous subaccount requests funds for the following specific programs:

	FY 89 $000	FY 90 $000	FY 91 $000
Fire Insurance in Germany	505	523	530
Permit Payments	947	992	995
Accommodation Charges in the United Kingdom	1	1	1
U.S. Embassy Support	98	101	103

No funding for reimbursements to Germany for land taxes has been included.

1 February 1990

UTILITIES ACCOUNT

FY 90	FY 91
$296,784,000	$303,641,000

This program provides for all utilities for Army Family Housing, which includes electricity, natural and propane gas, steam hot water, fuel oil, coal, water and sewage.

RECONCILIATION OF CHANGES

	($M)
FY 90 APPROPRIATION	$296.8
Internal Program Adjustment	-4.3
FY 90 REVISED APPROPRIATION	$292.5
Non-Fuel Inflation Adjustment	+14.8
Fuel Price Adjustments	-0.1
Increased Housing Inventory	+3.4
Energy Consumption Reduction Goal	-1.1
Foreign Currency Revaluation (DM 1.89 to DM 2.03/$)	-5.9
FY 91 PRESIDENT'S BUDGET REQUEST	$303.6

The payment of utilities costs are essential for family housing. The energy consumption reduction goal of .8 percent has been considered in the program and will be exceeded based on this funding level. It is anticipated that the established energy reduction goals between FY 85 and FY 95 will be met. Savings realized as a result of the energy conserving repair and improvement projects completed in prior years will continue to provide the results desired.

Fuel price inflation, non-fuel inflation, and foreign currency revaluation are computed at the prescribed rates. Internal program adjustments are contributed to savings realized from energy conserving repair projects and favorable weather conditions. Funding for increased inventory is based on average usage and number of months the housing will be occupied.

1 February 1990

MAINTENANCE ACCOUNT

FY 90	FY 91
$554,120,000	$540,210,000

As the largest discretionary program, the maintenance account absorbs the greatest impact of losses for the entire AFH O&M program. The decline of the dollar overseas in the past several years and the current budget deficit reduction actions have set back the Army's program to eliminate the deferred maintenance and repair (DMAR) backlog.

RECONCILIATION OF CHANGES

	($M)
FY 90 APPROPRIATION	$554.1
Internal Program Adjustments	-3.7
FY 90 REVISED APPROPRIATION	$550.4
Unfunded FY 90 Requirements (DMAR Growth)	+122.9
Foreign Currency Revaluation on DMAR (DM 1.89 to DM 2.03/$)	-25.2
DMAR Containment (Inflation & Deterioration)	+3.5
Increased Housing Inventory	+1.0
Base Closure	-15.0
Inflation Adjustment to M&R	+24.7
Foreign Currency Revaluation to M&R (DM 1.89 to DM 2.03/$)	-12.5
Total FY 91 Requirement	$649.8
Unfunded FY 91 requirement (DMAR Growth)	-109.6
FY 91 PRESIDENT'S BUDGET REQUEST	$540.2

The Army Family Housing's inventory continues to operate with a large backlog of deferred maintenance and repairs. In the early 1980's the Army initiated a program to properly finance costs for recurring day-to-day maintenance and to identify repair projects which would correct backlogs of maintenance for family housing. Funding levels approved by Congress for FY 84 and FY 85 and favorable foreign currency exchange rates through FY 85 allowed the Army to make significant progress towards correcting deferred maintenance and repair deficiencies. During this time, deferred maintenance and repair (DMAR) dropped from $747,000,000 to $503,000,000 by the end of FY 85. However, due to sequestration and foreign currency losses, the FY 86 through FY 89 funding was insufficient to contain DMAR and our backlog of work grew more than $100,000,000. Proposed funding is inadequate to cover the annual M&R requirements which will result in continued DMAR growth through FY 91. Initiating a program to revitalize the family housing quarters will reduce the recurring maintenance costs and result in a reduction in the future years funding for DMAR reduction.

1 February 1990

During FY 91 it is estimated that approximately 36,650 units and associated costs of $8,108 million will be required for quarters cleaning between change of occupancy at the following TLA locations overseas:

MACOM	NO. OF UNITS	($000)
USAREUR	26,930	6,018
WESTCOM	7,672	1,688
USARSO	1,000	100
EUSA	734	130
USARJ	314	172
	36,650	8,108

1 February 1990

ARMY FAMILY HOUSING
FY 91 PRESIDENT'S BUDGET
SUMMARY BACKLOG OF DEFERRED MAINTENANCE
($M)

	FY 88	FY 89	FY 90	FY 91
Backlog at Beginning of Year (DMAR)	500	603	601	723
DMAR Revalued (Foreign Currency)	534	603	631	699
DMAR Adjustment (Inflation & Deterioration)	33	45	45	48
DMAR Revised Beginning of Year Backlog	567	648	676	747
Annual Recurring Maint. (Incl new work & DU's)	531	551	597	626
Total Maint Required	1,098	1,199	1,273	1,373
Total Maint Financed	495	598	550	540
Backlog at End of Year (DMAR)	603	601	723	833
Backlog Change (DMAR)	+103	-2	+122	+110

1 February 1990

REIMBURSABLE AUTHORITY

FY 90	FY 91
$15,600,000	$16,000,000

The FY 91 program is based on FY 89 actuals. The program provides for the collection of costs for the provision of utilities and services, annual routine maintenance and repair work, rents associated with the use of government housing and trailer pads by authorized occupants, and damages caused by occupant negligence.

The following chart shows the source of receipts for the family housing account. Projections escalate to allow for surges in collections from occupants as well as proceeds from disposals of family housing assets:

	FY 89	FY 90	FY 91
Federal Funds from non-DOD agencies	5,000	5,200	5,400
Non-Federal Funds from occupants	10,200	10,400	10,600

1 February 1990

ARMY FAMILY HOUSING
OPERATION AND MAINTENANCE, SUMMARY
FISCAL YEAR 1991 PRESIDENT'S BUDGET

(Excludes Leased Units and Costs)

	FY 89 ACTUALS	FY 90 BUDGET ESTIMATE	FY 91 BUDGET ESTIMATE
A. INVENTORY DATA			
Units in Being Beginning of Year	156,703	158,527	161,574
Units in Being End of Year	158,527	161,574	163,019
Average Inventory for Year	157,615	160,051	162,297
a. Conterminous U.S.	90,077	92,076	93,754
b. U.S. Overseas	22,791	22,894	23,244
c. Foreign	44,747	45,081	45,299
d. Worldwide	157,615	160,051	162,297

B. FUNDING REQUIREMENT	TOTAL EST. ($000)	UNIT COST ($)	TOTAL EST. ($000)	UNIT COST ($)	TOTAL EST. ($000)	UNIT COST ($)
1. OPERATIONS						
a. Management	86,986	552	79,048	494	80,883	498
b. Services	51,209	325	55,887	349	58,203	359
c. Furnishings	84,970	539	76,060	475	73,469	453
d. Miscellaneous	1,302	8	1,617	10	1,629	10
SUBTOTAL OPERATIONS	224,467	1,424	212,612	1,328	214,184	1,320
2. UTILITIES	277,789	1,762	292,466	1,827	303,641	1,871
3. MAINTENANCE						
a. Maintenance and Repair of Dwellings	496,961	3,153	449,906	2,811	442,107	2,724
b. Exterior Utilities	32,873	209	26,574	166	26,100	161
c. Maint and Repair of Other Real Property	49,437	314	53,564	335	53,435	329
d. Alterations/Additions	19,703	125	20,378	127	18,568	115
SUBTOTAL MAINTENANCE	598,974	3,800	550,422	3,439	540,210	3,329
4. APPROPRIATION	1,101,230	6,987	1,055,500	6,595	1,058,035	6,520
5. REIMBURSABLE PROGRAM	15,200	96	15,600	97	16,000	98
6. TOTAL O&M PROGRAM	1,116,430	7,083	1,071,100	6,692	1,074,035	6,618

Exhibit FH-2

ARMY FAMILY HOUSING
OPERATION AND MAINTENANCE, SUMMARY
FISCAL YEAR 1991 PRESIDENT'S BUDGET

(Excludes Leased Units and Costs)

	FY 89 ACTUALS		FY 90 BUDGET ESTIMATE		FY 91 BUDGET ESTIMATE	
A. INVENTORY DATA (CONUS)						
Units in Being Beginning of Year	89,384		90,770		93,382	
Units in Being End of Year	90,770		93,382		94,125	
Average Inventory for Year	90,077		92,076		93,754	
B. FUNDING REQUIREMENT	TOTAL EST. ($000)	UNIT COST ($)	TOTAL EST. ($000)	UNIT COST ($)	TOTAL EST. ($000)	UNIT COST ($)
1. OPERATIONS						
a. Management	39,800	442	38,085	414	38,898	415
b. Services	24,348	270	26,315	286	28,158	300
c. Furnishings	11,625	129	13,192	143	14,036	150
d. Miscellaneous	317	3	285	3	294	3
SUBTOTAL OPERATIONS	76,090	844	77,877	846	81,386	868
2. UTILITIES	124,318	1,380	128,969	1,401	137,385	1,465
3. MAINTENANCE						
a. Maintenance and Repair of Dwellings	247,767	2,751	204,152	2,217	201,625	2,151
b. Exterior Utilities	16,390	182	12,059	131	11,903	127
c. Maint and Repair of Other Real Property	24,648	274	24,306	264	24,369	260
d. Alterations/Additions	9,822	109	9,246	100	8,468	90
SUBTOTAL MAINTENANCE	298,627	3,315	249,763	2,712	246,365	2,628
4. APPROPRIATION	499,035	5,540	456,609	4,959	465,136	4,961
5. REIMBURSABLE PROGRAM	9,574	106	7,972	87	8,176	87
6. TOTAL O&M PROGRAM	508,609	5,646	464,581	5,046	473,312	5,048

Exhibit FH-2

1 February 1990

ARMY FAMILY HOUSING
OPERATION AND MAINTENANCE, SUMMARY
FISCAL YEAR 1991 PRESIDENT'S BUDGET

(Excludes Leased Units and Costs)

	FY 89 ACTUALS	FY 90 BUDGET ESTIMATE	FY 91 BUDGET ESTIMATE
A. INVENTORY DATA (U.S. Overseas)			
Units in Being Beginning of Year	22,794	22,788	22,999
Units in Being End of Year	22,788	22,999	23,489
Average Inventory for Year	22,791	22,894	23,244

B. FUNDING REQUIREMENT	FY 89 TOTAL EST. ($000)	FY 89 UNIT COST ($)	FY 90 TOTAL EST. ($000)	FY 90 UNIT COST ($)	FY 91 TOTAL EST. ($000)	FY 91 UNIT COST ($)
1. OPERATIONS						
a. Management	8,569	376	10,910	477	12,533	539
b. Services	10,488	460	11,402	498	12,024	517
c. Furnishings	7,845	344	9,224	403	10,136	436
d. Miscellaneous	0	0	0	0	0	0
SUBTOTAL OPERATIONS	26,902	1,180	31,536	1,378	34,693	1,493
2. UTILITIES	34,419	1,510	42,360	1,850	47,767	2,055
3. MAINTENANCE						
a. Maintenance and Repair of Dwellings	61,320	2,691	67,641	2,955	73,849	3,177
b. Exterior Utilities	4,056	178	3,995	174	4,360	188
c. Maint and Repair of Other Real Property	6,100	268	8,053	352	8,926	384
d. Alterations/Additions	2,432	107	3,064	134	3,101	133
SUBTOTAL MAINTENANCE	73,908	3,243	82,753	3,615	90,236	3,882
4. APPROPRIATION	135,229	5,933	156,649	6,842	172,696	7,430
5. REIMBURSABLE PROGRAM	1,002	44	1,030	45	1,056	45
6. TOTAL O&M PROGRAM	136,231	5,977	157,679	6,887	173,752	7,475

Exhibit FH-2

ARMY FAMILY HOUSING
OPERATION AND MAINTENANCE, SUMMARY
FISCAL YEAR 1991 PRESIDENT'S BUDGET

(Excludes Leased Units and Costs)

	FY 89 ACTUALS	FY 90 BUDGET ESTIMATE	FY 91 BUDGET ESTIMATE
A. INVENTORY DATA (Foreign)			
Units in Being Beginning of Year	44,525	44,969	45,193
Units in Being End of Year	44,969	45,193	45,405
Average Inventory for Year	44,747	45,081	45,299

B. FUNDING REQUIREMENT	FY 89 TOTAL EST. ($000)	FY 89 UNIT COST ($)	FY 90 TOTAL EST. ($000)	FY 90 UNIT COST ($)	FY 91 TOTAL EST. ($000)	FY 91 UNIT COST ($)
1. OPERATIONS						
a. Management	38,617	863	30,053	667	29,452	650
b. Services	16,373	366	18,170	403	18,021	398
c. Furnishings	65,500	1,464	53,644	1,190	49,297	1,088
d. Miscellaneous	985	22	1,332	30	1,335	29
SUBTOTAL OPERATIONS	121,475	2,715	103,199	2,289	98,105	2,166
2. UTILITIES	119,052	2,661	121,137	2,687	118,489	2,616
3. MAINTENANCE						
a. Maintenance and Repair of Dwellings	187,874	4,199	178,113	3,951	166,633	3,679
b. Exterior Utilities	12,427	278	10,520	233	9,837	217
c. Maint and Repair of Other Real Property	18,689	418	21,205	470	20,140	445
d. Alterations/Additions	7,449	166	8,068	179	6,999	154
SUBTOTAL MAINTENANCE	226,439	5,060	217,906	4,834	203,609	4,495
4. APPROPRIATION	466,966	10,436	442,242	9,810	420,203	9,276
5. REIMBURSABLE PROGRAM	4,624	103	6,598	146	6,768	149
6. TOTAL O&M PROGRAM	471,590	10,539	448,840	9,956	426,971	9,425

Exhibit FH-2

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION Various Locations-Continental and Overseas	4. PROJECT TITLE AFH Maintenance/Repair Projects over $15,000/Dwelling Unit (D.U.)

5. PROGRAM ELEMENT 887420	6. CATEGORY CODE 771	7. PROJECT NUMBER Congressional Report Request	8. PROJECT COST ($000) $44,925.8

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Projects for Repairs to				
Family Housing Dwelling Units [Non General/Flag Officer Qtrs (GFOQ)]	DU	1,179	-	$44,925.8

10. Proposed Construction Description

Projects include work necessary to provide adequate family quarters by repairing/replacing deteriorated building components, i.e., kitchen counters and cabinets, floors, walls, windows, mechanical, electrical, air conditioning and plumbing systems, kitchen and bath fixtures, roofing and exterior siding as required. Replacement of building components in quarters designated as historically significant are performed on life cycle analysis, as applicable, in coordination with the State Historic Preservation Officer.

11. Requirement for Project:

PROJECT: Provides repairs in 1,179 units by replacing deteriorated components and/or building systems. These units do not include general or flag officers as projects for these units are reported separately.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION
Various Locations - Continental and Overseas

4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)	5. PROJECT NUMBER P1920

REQUIREMENT: Projects are required to accomplish necessary repairs in family quarters to correct deficiencies due to continued use, deterioration or failure of building component. Work proposed includes enlisted and officer quarters. The work proposed is the type necessary to assure continued occupancy, adequately maintain the facility, prevent the unit from further deterioration and is based on a life cycle analysis of the component. Projects are at CONUS and overseas locations.

CURRENT SITUATION: These units vary in age from 20 to 100 years. The buildings are structurally sound and worthy of investment; however, the facility components and utility systems are deteriorated to the extent that maintenance is no longer effective, and major repairs or replacement of components are required. Type of repairs to be performed are based on a cost analysis.

NOTE: This information is provided in accordance with the House Appropriation Committee, Report 101-176, July 26, 1989, requiring the Services to report major repairs in family quarters where the costs (obligations) exceed $15,000 per dwelling unit in a fiscal year. GFOQs are reported separately where the total obligations for maintenance and repairs during the fiscal year will exceed $25,000. The project listing allows for execution of the projects in FY 91. Work required in historical family quarters, designated as historically significant, has been identified and will be performed in consultation with applicable State Historic Preservation Officers.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)		5. PROJECT NUMBER P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
ILLINOIS				
ROCK ISLAND Historical (PN32762)	1	$ 86.0	$ 86.0	0

Repair damaged roof, rotten roof decking, fascia, soffet and gutters. Repairs to include replacement of rotted rafter tails, gutters and downspouts. Replace deteriorated storm windows and door units which have exceeded their useful life expectancy.

ROCK ISLAND Historical (PN16769)	2	$ 18.5	$ 37.0	0

Replace deteriorated storm windows and doors. Existing storm windows no longer seal properly and some cannot be made operational, resulting in increased maintenance costs, energy waste and discomfort to the occupants.

SAVANNA DEPOT (PN29317)	1	$ 32.0	$ 32.0	0

Replace deteriorated aluminum storm windows which are no longer functional due to age and normal wear and tear, resulting in loss of energy efficiency. Replace carpet (primary floor finish) which is worn and deteriorated, twenty years old and exceeded its normal life expectancy.

MARYLAND				
ABERDEEN (PN16719/PN16721)	72	$ 18.7	$1,346.4	0

Replace twenty year old heating system with gas fired furnaces and central air conditioning. The ductwork will be relocated from the floor slab to an overhead distribution system, eliminating a potential health hazard and allowing the building foundations to be treated to prevent termite infestation. If this problem is not corrected extensive damage to the infrastructure and heating failures will occur.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION
Various Locations - Continental and Overseas

4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)	5. PROJECT NUMBER P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (Exchange rate 2.03 DM - $1.00)				
BAD KREUZNACH (PN32822)	88	$ 37.0	$3,256.0	0

Repair deteriorated floors in kitchens and bathrooms, repair/replace built-in closets and radiators. Repair/replace worn heating, cold water, domestic water and sewer lines. Replacement of electrical system including lights and outlets is also required. Repair walls and ceiling, plaster and paint.

BAD TOELZ (PN32633/PN32634/ PN32635)	46	$ 31.7	$1,458.2	0

Repair interior of dwelling units to include replacement of hot and cold water supply, circulation and sewage pipes, replacement of kitchen and bathroom cabinets, doors, sinks, fixtures, fittings, floor and wall tiles, to include dishwasher and ventilation exhaust systems. Replacement of all sanitary fixtures, wall and floor tiles in bathrooms. Replacement of interior doors and door frames, replastering and repainting of wall and ceiling surfaces.

BAUMHOLDER (PN32743)	131	$ 32.1	$4,205.1	0

Replace domestic water lines and interior sewer lines, heating system to include radiators and thermostatic valves, kitchen and bathroom fixtures and fittings to include built-in cabinets, ceramic wall and floor tiles, electrical system to include replacement of switches and outlets. Repair/replacement of floors, interior doors and entry doors.

ASCHAFFENBURG (PN 25328)	8	$ 30.1	$ 240.8	0

Repair interior of dwelling units, including replacements of utility systems, kitchens and bathrooms. Repair doors, floors, walls, windows and cabinets.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION
Various Locations - Continental and Overseas

4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)	5. PROJECT NUMBER P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't)				
BAYREUTH (PN32408)	10	$ 36.3	$ 363.0	0

Replace/repair deteriorated doors, floors, bathroom fixtures, kitchen cabinets, plumbing, heating, electrical systems and interior plaster and paint. The interior plaster is cracked and peeling from the walls. Hot/cold water pipes are filled with calcareous deposits. Plumbing fixtures are chipped and cracked. Doors are warped, dilapidated and askew. Electrical system has deteriorated and electrical circuits have been crystallized and are not grounded.

FRANKFURT (PN14343)	174	$ 35.8	$6,229.2	0

Replace domestic water lines and interior sewer lines, heating systems to include radiators and thermostatic valves, kitchen and bathroom fixtures and fittings to include ceramic wall and floor tiles. Repair/replace electrical systems, interior and exterior doors, plaster and paint.

GIESSEN (PN29677)	78	$ 31.7	$2,472.6	0

Replace domestic water lines and interior sewer lines, heating systems to include radiators and thermostatic valves, kitchen and bathroom fixtures and fittings to include ceramic wall and floor tiles. Repair/replace electrical systems, interior and exterior doors, plaster and paint.

GRAFENWOEHR (PN 32630)	1	$ 37.2	$37.2	0

Replace domestic water and sanitary sewer pipes, electrical system, interior doors, replace wall and floor tiles, patching and painting. This project is required to prevent further deterioration and protect the infrastructure of the quarters.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION
Various Locations - Continental and Overseas

4. PROJECT TITLE	5. PROJECT NUMBER
Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)	P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't) GRAFENWOEHR (PN32646)	4	$ 33.1	$132.4	0

Replace the following deteriorated items: Doors, wooden floors, PVC floor coverings, ceramic wall and floor tiles; bathroom fixtures and kitchen cabinets; plumbing system; heating and electrical systems; and interior plaster and paint.

GRAFENWOEHR (PN32698)	1	$ 37.2	$37.2	0

Repair cracks and water damage to exterior wall surfaces, replace deteriorated rain gutters and downspouts. Repairs include removing deteriorated plaster, applying thermal insulation plaster, repair of terrace, garage, roof eaves, a replacement of main entrance doors, roof gutters and down spouts.

HANAU (PN28998/PN29758)	172	$ 36.3	$6,243.6	0

Replace/repair domestic water lines, heating systems to include radiators and valves, electrical system, bathroom fixtures and fittings, built-in closets, floors, ceramic tiles on walls, plaster, entrance doors and paint.

HEIDELBERG (PN29843)	17	$ 84.9	$1,443.3	0

Repair by replacing kitchens, utility systems and bathrooms. Kitchen work includes replacing exhaust fans and dishwashers. Utility work includes replacing electrical, water, sanitary, heating lines, radiators and related plaster repair and painting. Bathroom work includes replacing fixtures, tile, radiators, plumbing, heating and sanitary lines.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)		5. PROJECT NUMBER P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't)				
HOHENFELS (PN32616)	2	$ 27.9	$55.8	0

Repair deteriorated exterior plaster consisting of removing deteriorated plaster and applying thermal insulation and recoating. Repair/replacing roof gutters and down spouts, entrance doors, balconies, ceilings and roofs.

KARLSRUHE (PN25857)	90	$ 36.7	$3,303.0	0

Replace heating system, domestic water lines, and electrical distribution system. Repair/replace wood floors, bathrooms, entrance doors and plaster walls and painting.

MAINZ (PN28841)	36	$ 36.3	$1,306.8	0

Replace domestic water lines, heating systems to include radiators and thermostatic valves, electrical systems in kitchens, living rooms and bedrooms, all plumbing and electrical fixtures/fittings in kitchens, ceramic tiles on floors and walls of kitchen and bathrooms. Replace/repair wood floors, doors, plaster and paint.

MUNICH (PN29294)	1	$ 18.6	$18.6	0

Repair deteriorated kitchens and bathrooms. The electrical system for the kitchen has deteriorated to the extent that safety and health hazards exist from short circuits and presently do not meet required safety standard VDC 0100. Repairs include ceilings, floors, walls, doors, bathroom fixtures, kitchen fixtures, plumbing and electrical systems.

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90
3. INSTALLATION AND LOCATION Various Locations - Continental and Overseas		
4. PROJECT TITLE Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)		5. PROJECT NUMBER P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't)				
NEW ULM (PN31915/32534 32584/32586 32590/32602 32605/32615 32617/32563 32583	176	$ 58.2	$10,243.2	0

Replace deteriorated bathroom fixtures, heating lines, radiators, 110V and 220V electrical system, parquet floors, plumbing system, floor tile, built-in-closets, interior doors, stairwells, basements, plaster, paint and install smoke detectors in basements. This work takes care of all known major repairs to the housing units.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
REGENSBURG (PN16262)	6	$ 34.1	$204.6	0

Replace/repair interior entrance doors, bathroom facilities, built-in wardrobes, buffets, hardwood floors, heating system, domestic water lines, main electrical distribution panels in stairwells and electric lines, and repaint interior.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
VILSECK (PN32692/PN32693 PN32694/PN32695)	16	$ 34.9	$558.4	0

Replace the following items: Doors, walls and floor tiles, bathroom fixtures and cabinets, built-in kitchen cabinets, plumbing and electrical systems and interior plaster and painting.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
WIESBADEN (PN09905)	2	$ 59.6	$119.2	0

Replace hot and cold water lines, interior sewer lines, heating systems to include radiators and thermostatic valves, kitchen and bathroom fixtures and fittings to include ceramic wall and floor tiles. Repair/replace electrical systems, interior and exterior doors, plaster and paint.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT ARMY	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Feb 90

3. INSTALLATION AND LOCATION
Various Locations - Continental and Overseas

4. PROJECT TITLE	5. PROJECT NUMBER
Army Family Housing Maintenance and Repair Projects Over $15,000/Dwelling Unit (D.U.)	P1920

DESCRIPTION OF WORK TO BE ACCOMPLISHED

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't) WORMS (PN32587)	24	$ 32.6	$782.4	0

Renovate kitchens and baths to include cabinets, dishwashers, range hoods, exhaust fans, plumbing fixtures, ceramic wall and floor tiles and bathroom exhaust fans.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
GERMANY (con't) ZWEIBRUECKEN (PN26471)	18	$ 35.8	$644.4	0

Replace domestic water lines, kitchen cabinets, range hoods, exhaust fans, ceramic wall tiles and floors, heating systems, doors/hardware and wood trim and electrical system. Repair floors, walls and ceilings and paint.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
JAPAN (132.61 Yen = $1.00) CAMP ZAMA (PN29417)	1	$ 40.0	$40.0	0

Replace interior electrical system including light fixtures, switches, receptacles, junction boxes, panelboard and wiring. Repair floor, walls and ceiling surfaces. Provide termite control treatment to include trenching and rodding of the foundation. Protective measures are required to prevent further termite damage to the infrastructure. This work takes care of all known major repairs to the housing units.

STATE/ INSTALLATION	NO. OF D.U.	($000) AVE D.U. COST	($000) TOTAL CWE	CONCURRENT POST ACQUISITION CONSTRUCTION
CAMP ZAMA (PN29443)	1	$ 29.4	$29.4	0

Repair interior electrical system including light fixtures, switches, receptacles, junction boxes, panelboard and wiring. Repair floor, walls and ceiling surfaces.

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DEPARTMENT OF THE ARMY

FISCAL YEAR 1991

GENERAL/FLAG OFFICER QUARTERS (GFOQ's) WHERE ANTICIPATED MAINTENANCE AND REPAIR OBLIGATIONS WILL EXCEED $25,000 PER DWELLING UNIT

This information is provided in accordance with the reporting requirement as stated in the Military Construction Appropriations Bill Report 101-176, July 26, 1989. This report provides information regarding the total anticipated costs for operating and maintaining those GFOQ's where maintenance and repair obligations in FY 91 are anticipated to exceed $25,000 per dwelling unit. Operations include costs for the management of family housing (pro rata share), services (trash collection, entomology, etc.), and furnishings. Utilities include applicable costs for energy (electricity, gas, fuel oil, etc.), water, and sewer. Annual lease costs are separately identified, where applicable. Maintenance and repairs include recurring work (service calls, preventive maintenance, and routine work between occupancy) and major repairs. In those quarters designated as historical, major work is coordinated with the appropriate State-Historic Preservation office. Improvements (post acquisition construction funding) are identified separately if they are proposed to be funded in FY 91. Leased quarters exceeding $20,000 are included in the Army's high cost lease authority in accordance with Military Construction Authorization Law. All leases executed or renewed where costs exceed $20,000 are submitted to Appropriation Committees prior to execution.

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Arizona								
Fort Huachuca								
135 Grierson (Historical) (PN32999)	5,623	1881	0	$ 2,200	$ 5,000	$37,300	$44,500	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major project to replace water piping, boiler/heating system, electrical wiring, and removal of asbestos.

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
137 Grierson (Historical) (PN32999)	6,112	1884	0	$ 2,200	$ 5,000	$38,800	$46,000	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and a major project to replace water piping, boiler/heating system, electrical wiring, and removal of associated asbestos.

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Arizona (cont) Fort Huachuca (cont) 139 Grierson (Historical) (PN32999)	5,038	1884	0	$ 2,200	$ 5,000	$38,800	$46,000	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and a major project to replace water piping, boiler/heating system, electrical wiring, and removal of associated asbestos.

143 Grierson (Historical) (PN32999)	4,727	1884	0	$ 2,200	$ 5,000	$37,300	$44,500	0

Maintenance and repairs include service calls, maintenance at change of occupancy, grounds maintenance, and a major project to replace water piping, boiler/heating system, electrical wiring, and removal of associated asbestos.

Colorado Fitzsimons Army Medical Center Qtrs #1 (Historical) (PN30280)	4,600	1890	0	$ 1,318	$ 3,700	$46,500	$51,518	0

Maintenance and repair includes service calls, change of occupancy maintenance, interior painting, grounds maintenance, and a major project to replace boiler and radiators.

Georgia Fort Benning 100 Vibbert (Historical) (PN33034) (PN27575)	6,118	1918	0	$ 900	$ 5,400	$70,900	$77,200	0

Maintenance and repairs include service calls, grounds maintenance, and a major project to renovate kitchen, repair driveway, reline fireplace flue, and repair/replace windows.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Hawaii								
Hickam Air Force Base								
202 7th St (PN14905)	2,282	1939	0	$ 675	$4,000	$38,500	$43,175	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, interior painting, and a major project to repair bathrooms and remove associated asbestos.

204 7th St (PN14906)	2,399	1939	0	$ 675	$4,000	$38,500	$43,175	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, exterior painting, and a major project to repair bathrooms and remove associated asbestos.

201 8th St (PN14902)	2,811	1939	0	$2,675	$4,000	$41,500	$48,175	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, exterior painting, a major project to repair bathrooms and remove associated asbestos, and replace gazebo roof.

203 8th St (PN14903)	2,452	1939	0	$ 675	$4,000	$30,500	$35,175	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance and a major project to repair bathrooms and remove associated asbestos.

205 8th St (PN14904)	2,096	1939	0	$ 675	$4,000	$38,500	$43,175	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, exterior painting and a major project to repair bathrooms and remove associated asbestos.

601 Bouquet (PN14901)	3,241	1939	0	$7,925	$4,000	$44,000	$55,925	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, interior painting and a major project to repair bathrooms and remove associated asbestos.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Hawaii (cont)								
Hickam Air Force Base (cont)								
704 Beard (PN14907)	2,510	1939	0	$ 925	$4,000	42,000	$46,925	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, interior painting, and a major project to repair bathrooms and remove associated asbestos.

Pearl Harbor								
Qtrs #A (Historical) (PN00020)	5,588	1914	0	$ 2,170	$ 9,600	$42,780	$54,550	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major project for exterior painting.

Qtrs #H (Historical) (PNNAVY)	2,803	1914	0	$ 5,540	$ 2,000	$51,290	$58,830	0

Maintenance and repairs include service calls, change of occupancy maintenance, interior painting, exterior painting, grounds maintenance, and a major project to replace interior water/sewer lines and floor tiles.

Makalapa Drive								
Qtrs #23 (PN30317)	2,741	1941	0	$ 640	$ 3,620	$57,260	$61,520	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and major project to include electrical rewiring, replace canic ceiling, replace jalousie windows, and replace the kitchen drainline. This work completes all known major repairs.

Makalapa Drive								
Qtrs #25 (PN30326)	2,681	1941	0	$ 640	$ 4,450	$68,530	$73,620	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and a major project to include electrical rewiring, replace canic ceiling, replace jalousie windows, and to replace kitchen drainline. This work completes all known major repairs.

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Hawaii (cont)								
Pearl Harbor (cont)								
Makalapa Drive Qtrs #27 (PN30327)	2,682	1941	0	$ 1,430	$ 3,010	$81,970	$86,410	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and major project to include electrical rewiring, replace canic ceiling, replace jalousie windows, and replace kitchen drainline. This work completes all known major repairs.

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Makalapa Drive Qtrs #30 (PN30331)	2,678	1941	0	$ 3,230	$ 2,210	$68,930	$74,370	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and a major project for electrical rewiring, floor tile replacement, and replace canic ceiling, and replace jalousie windows. This work completes all known major repairs.

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Makalapa Drive Qtrs #31 (PN30332)	2,614	1941	0	$ 1,120	$ 2,920	$76,830	$80,870	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and major project to include electrical renovations, replace canic ceiling, and jalousie windows, replace kitchen drainline. This work completes all known major repairs.

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Makalapa Drive Qtrs #38 (PN30358)	2,687	1941	0	$ 1,030	$ 2,700	$68,930	$72,660	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, grounds maintenance, and major project to include electrical renovations, ceiling and jalousie window replacements, and replace kitchen drainline. This work completes all known major repairs.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Illinois								
Rock Island								
Qtrs #1	21,965	1872	0	$1,800	$15,000	$239,900	$256,700	0
(Historical)								
(PN18885)								

Maintenance and repairs include routine maintenance, interior painting, and major projects for repair of exterior limestone work and replacement of storm windows and doors. Project development is being coordinated with the State Historic Preservation Officer and in compliance with the Secretary of the Interior's standards for rehabilitation. This project will complete all known exterior major repairs.

Note: Alternative to making repairs is to authorize and appropriate $200,000 for a replacement general officer quarters and convert the building to a multi-family unit or some other purpose.

Qtrs #4	8,754	1872	0	$1,200	$4,500	$140,000	$145,700	0
(PN32761)								
(PN32763)								

Maintenance and repairs include, routine maintenance, interior painting, and major projects for roof repair, and repair/replace the electrical wiring.

Note: Alternative to making repairs is to authorize and appropriate $200,000 for a replacement general officer quarters and convert the building to a multi-family unit or some other purpose.

Kansas								
Fort Leavenworth								
2 Sumner Pl	2,100	1911	0	$ 906	$ 4,150	$40,480	$45,536	*
(Historical)								
(PN26644)								
(PN30287)								

Maintenance and repairs include service calls, routine maintenance, interior painting, grounds maintenance, and major repairs to repair/replace the heating system.

* $10,000 for new work to install air conditioning concurrently with the major repair project cited above will be funded in the post acquisition program. This allows replacement of the heating system with a heating/cooling system.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Kansas (cont) Fort Riley Qtrs #1 (Historical) (PN26711)	7,068	1838	0	$ 1,890	$ 4,165	$68,000	$74,055	

Maintenance and repairs include service calls, maintenance at the change of occupancy, interior painting, and major projects to replace the heating and airconditioning system and electrical upgrade throughout the unit.
Note: The major project was approved for FY 90 with the intent to perform work while the unit was vacant. It is deferred to FY 91 because of a change in the moving schedule of the occupant.

New York West Point Qtrs #100 (Historical)	10,558	1820	0	$ 6,424	$ 5,006	$32,964	$44,394	0

Maintenance and repairs includes service calls, routine maintenance, change of occupancy maintenance repairs, repair roof flashings, replace exterior storm and screen doors, grounds maintenance, and maintenance and repair of the utility system.

Virginia Fort Myer Qtrs #1 (Historical) (PN32851)	8,460	1899	0	$20,575	$ 9,351	$65,200	$95,126	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, and a major project to renovate the kitchen.

Note: Future major repair project programmed: FY 92 - $60,000 to repair front, side and rear porch.

Washington DC Fort McNair Qtrs #14 (Historical)	3,169	1903	0	$ 3,575	$ 5,319	$26,300	$35,194	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, and major projects to replace the boiler and kitchen countertops.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Belgium								
NSSG								
(42.55 Franc = $1.00)								
Qtrs #1	10,411	1800	*	$11,939	$30,511	$40,553	$83,003	0

* No cost lease.

Maintenance and repairs include service calls, routine maintenance, interior painting, and kitchen renovation.

Qtrs #4	3,185	1925	$20,660	$2,950	$ 5,797	$24,687	$54,094	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, and grounds maintenance.

Qtrs #8	4,129	1950	$29,364	$5,619	$ 9,963	$27,702	$72,648	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, and for grounds maintenance.

Germany								
(2.03 Deutsche Mark = $1.00)								
Baumholder								
8088 Forest (PN30105)	2,946	1956	0	$ 2,512	$ 2,848	$86,869	$92,229	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to replace heating system, electrical system, interior painting, repair kitchen and bathrooms. This work completes all known major repairs.

Frankfurt								
Bad Vilbel								
Qtrs #204 (PN33065)	2,641	1957	0	$ 1,568	$ 8,608	$46,422	$56,598	0

Maintenance and repairs include service calls, grounds maintenance, and a major repair project to renovate the kitchen, repair/replace heating, electrical and plumbing.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Germany (cont) Frankfurt (cont) Bad Vilbel Qtrs #215 (PN33066)	2,641	1957	0	$ 1,568	$ 8,608	$46,422	$56,598	0

Maintenance and repairs include service calls, grounds maintenance, and a major repair project to renovate the kitchen, repair/replace heating, electrical and plumbing.

Heidelberg Concord Street Qtrs #3 (PN26232)	2,414	1956	0	$ 5,013	$ 2,055	$91,900	$98,968	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace the plumbing and electrical system, renovate the bathrooms, replace heating system, replace kitchen furnishings, interior painting, sand and seal wooden floors. This work completes all known major repairs.

Qtrs #5 (PN26232)	2,414	1956	0	$ 3,676	$ 2,516	$92,860	$99,052	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace the plumbing and electrical system, renovate the bathrooms, replace heating system, replace kitchen furnishings, interior painting, sand and seal wooden floors. This work completes all known major repairs.

N. Lexington Qtrs #15 (PN26232)	2,414	1956	0	$ 2,823	$ 3,325	$92,890	$99,038	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace the plumbing and electrical system, renovate the bathrooms, replace heating system, replace kitchen furnishings, interior painting, sand and seal wooden floors. This work completes all known major repairs.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Germany (cont)								
Heidelberg (cont)								
San Jacinto								
Qtrs #28 (PN29955)	3,219	1956	0	$ 3,078	$ 2,892	$93,080	$99,050	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace plumbing and electrical system, and renovate the bathrooms, interior painting, sand and seal floors. This work completes all known major repairs.

Qtrs #30 (PN32779)	3,219	1957	0	$ 3,794	$ 3,111	$92,075	$98,980	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace plumbing and electrical system, renovate the bathrooms, and interior painting, sand and seal floors. This work completes all known major repairs.

Qtrs #43 (PN26332)	3,533	1956	0	$ 3,422	$ 2,502	$93,130	$99,054	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace plumbing and electrical system, renovate the bathrooms, replace kitchen furnishings, and interior painting. This work completes all known major repairs.

Qtrs #45 (PN26232)	2,414	1956	0	$ 2,864	$ 2,925	$93,275	$99,064	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project to repair/replace plumbing and electrical system, renovate the bathrooms, replace kitchen furnishings, and interior painting. This work completes all known major repairs.

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DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Germany (cont) Nuernberg 34 Brahms (PN27962)	1,973	1957	0	$ 1,525	$11,699	$69,285	$82,509	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major repair project for exterior weatherproofing and insulation, repair driveway, sidewalks, terrace and entrance, repair/replace balcony surface, railings and gutter.

Note: Future major repair projects programmed: FY 92 - $16,000 repair bathrooms; FY 93 - $10,000 to repair kitchen.

Schweinfurt Niederwerrner Str Qtrs #185 (PN26443)	2,370	1937	0	$ 1,916	$ 3,450	$86,829	$92,195	0

Maintenance and repairs include service calls, routine maintenance, and a major project to repair roof and plaster work, and repair of sewer lines, heating lines, electrical system components and floor and wall tiles.

Note: Future major repair projects programmed: FY 93 - $51,000 to repair storm drainage system and storage area.

Stuttgart Richard Wagner Strasse Qtrs #39 (PN29330)	15,987	1921	0	$ 2,385	$18,392	$74,676	$ 95,453	0

Maintenance and repairs include service calls, routine maintenance, interior painting, exterior maintenance repairs to grounds, and a major project for electrical repairs.

Note: Future major repair projects programmed: FY 92 - $20,000 to Repair Shutters and Exterior Paint; FY 93 - $65,000 to Renovate Kitchen and Pantry; FY 94 - $35,000 to Repair Roof.

DEPARTMENT OF THE ARMY
FISCAL YEAR 1991
GENERAL/FLAG OFFICER QUARTERS (GFOQ)
(continued)

STATE/ INSTALLATION QTRS NO.	NET SQUARE FOOTAGE (NSF)	YEAR BUILT	LEASE	OPERATIONS	UTILITIES	MAINT & REPAIRS	TOTAL	NEW WORK
Germany (cont) Wiesbaden Qtrs #2 (PN01905)	4,463	1956	0	$ 1,827	$ 3,646	$87,062	$ 92,535	0

Maintenance and repairs include grounds maintenance and a major project to renovate kitchen and bathrooms, repair/replace wooden floors, repair/replace plumbing and electrical, and interior painting. This work completes all known major repairs.

Qtrs #8 (PN01903)	3,172	1956	0	$ 1,657	$ 3,227	$67,685	$72,569	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major project to repair/replace electrical and plumbing, and renovate the kitchen and bathrooms. This work completes all known major repairs.

Qtrs #16 (PN01903)	3,172	1956	0	$ 1,657	$ 3,227	$67,685	$72,569	0

Maintenance and repairs include service calls, routine maintenance, grounds maintenance, and a major project to repair/replace electrical system and plumbing, and renovate the kitchen and bathrooms. This work completes all known major repairs.

Japan (149.05 Yen = $1.00) Camp Zama Qtrs #1001	4,194	1955	0	$ 5,197	$ 7,990	$26,882	$40,069	0

Maintenance and repairs include service calls, maintenance at change of occupancy, interior painting, exterior painting, and grounds maintenance.

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ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
LEASING

(In Thousands)	
FY 1991 Program	$434,316
FY 1990 Program	$319,142

Purpose and Scope

The leasing program provides for the payment of rent, operation and maintenance of economy quarters for assignment as government quarters to eligible families. Rents are paid only after the Army accepts units for occupancy. This program also includes funds needed to pay for services such as utilities, refuse collection and maintenance when these services are not part of the contract agreement. It provides family housing at those installations where the local economy cannot provide adequate support and additional housing is required to help satisfy a housing deficit.

a. Domestic Leasing: Leasing in the United States, Puerto Rico and Guam is authorized in 10 U.S.C. 2828. This statute provides that leases may be acquired at or near a military installation only if the Secretary of the Army, or his designee, finds there is a shortage of adequate housing and (1) the requirement is temporary, (2) leasing would be more cost effective than construction or acquisition of new housing, (3) family housing is required for personnel attending service school academic courses on permanent change of station orders, (4) construction of family housing at the military installation was authorized by law but is not yet completed, or (5) a military construction authorization bill pending in Congress includes a request for authorization of family housing construction at the military installation. Subject to the above, domestic leasing is limited to locations where large family housing deficits exist. Also, leasing is used to provide temporary housing until permanent housing (i.e., government construction and/or Sections 801/802) is available for occupancy.

The CONUS build-to-lease program was authorized in Section 801 of PL 98-115, 11 October 1983, as a test program and included in 10 U.S.C. 2828. It was modified by Section 806, PL 98-407, Section 8109, PL 98-473, 98 STAT. 1943, Section 801, PL 99-167, Section 2713, PL 99-661 and Section 2306, PL 100-180.

b. Foreign Leasing: Leasing in foreign countries is authorized in 10 U.S.C. 2828. This law provides that foreign leases may be acquired if the Secretary of the Army, or his designee, finds that (1) the requirement for such housing is temporary, (2) leasing would be more cost effective than construction or acquisition of new housing, (3) construction of family housing at the installation has been authorized by law but is not yet completed, (4) a military construction authorization bill pending in Congress includes a request for authorization of construction of family housing at the installation, (5) the quarters are for incumbents of special command positions, (6) the cost of private housing in the foreign country

is excessive or other lease terms would cause undue hardship on Department of the Army personnel, or (7) the foreign country prohibits leases by individual military or civilian personnel of the United States. Limitations on the number of family housing leases and costs in foreign countries are specified.

PROGRAM SUMMARY

Authorization is requested for the appropriation of $434,316,000 to fund leases and related expenses in FY 91. Authorization in FY 91 is required for (a) 3,334 domestic leases, (b) 7,500 Section 801 leases, and (c) 41,081 foreign leases. A summary of the leasing program follows:

	FY 89		FY 90		FY 91	
	Authorization Units	Cost $000	Authorization Units	Cost $000	Authorization Units	Cost $000
Domestic Leases	3,334	9,733	3,334	7,097	3,334	8,645
Section 801 Leases	7,500	42,457	7,500	51,811	7,500	59,425
Foreign Leases	26,081	183,600	41,081	260,234	41,081	366,246
TOTAL	36,915	$235,790	51,915	$319,142	51,915	$434,316

Authorization is normally required 24-48 months prior to actual occupancy due to the lead time required to advertise, negotiate and construct leased units under the build-to-lease concept. Funds are required for the average number of units to be occupied during each fiscal year (determined by dividing by 12 the number of lease months occupied) as follows:

	FY 89	FY 90	FY 91
Domestic	1,150	860	954
Section 801	3,322	3,873	4,330
Foreign	17,765	20,454	19,735
GRHP	1,200	6,312	15,412
TOTAL	23,437	31,499	40,431

1 February 1990

JUSTIFICATION:

Domestic Leasing: The domestic leasing program provides temporary housing for enlisted families pending availability of permanent housing. Oahu's leasing program will provide interim relief for soldiers assigned to this location pending completion of the Section 801, 802, and AFH construction programs on the Island. At Fort Hood, it is being used to temporarily house personnel associated with the training of AH-64 attack helicopter units.

Section 801: The Army developed four projects at Fort Drum, Fort Polk, Fort Wainwright, and Fort Hood in FY 85. These projects were constructed and are occupied. Continuation of this program assists in reducing our CONUS family housing deficit at sites where Army families are most seriously affected by housing shortages. Funds are requested for the development expenses of these projects as well as the payment of lease costs, operation and maintenance expenses only for the time period Section 801 units are actually occupied. Authority to expand this program was approved in the FY 88 Authorization Act. FY 1991 budget will support 4,330 occupied units.

Foreign Leasing: The FY 91 foreign leasing program request consists of 41,081 foreign lease allocations to include 19,200 units for the Government Rental Housing Program (GRHP) in the European Theater. The increase in authorization provides for the expansion of GRHP in Europe and continued execution of the Army's acquisition plan to negotiate build-to-lease contracts in communities where family housing shortages are severe and it is economical to do so. Leasing is proposed in those locations where it is in the best interest of the U.S. Government.

Total Program: Although all authorized units will not be occupied by the end of FY 91, full authorization is required to allow contracts to be negotiated and signed. Critical shortages of housing for forward deployed forces and scarcity of land in foreign countries limit the ability to find adequate and affordable economy assets. In many locations, lack of land on the military installation precludes on-post construction. In areas where government controlled land is not available, build-to-lease housing ventures continue to provide a successful and viable means of satisfying our large housing requirement. Increases in housing allowances do not always provide significant relief, since there are insufficient private rentals available at many locations. This approach is endorsed by both the United States and foreign governments, and continues to be attractive to private investors and financial backers.

Governmental Rental Housing Program (GRHP): The GRHP program in USAREUR allows execution of leases for existing units more expeditiously through direct leasing as opposed to indirect leasing (through the local governments) currently done under the build-to-lease program. The net result is having a unit available for a family much quicker. There is no construction period as with the build-to-lease projects. The Army negotiates, executes and manages lease contracts; assumes responsibility for all costs (deposits, rent, utilities, maintenance and services); and pays for damage claims (Army recovers from soldiers). Soldiers forfeit allowances and remain in the GRHP unit for duration of tour (saves local move to on-post housing). Under this program soldiers and families are housed more quickly, relieved of large deposits, experience less turmoil, and morale is enhanced. Army management of the GRHP program has demonstrated that total leasing costs do not exceed the maximum BAQ/VHA allowances forfeited by the soldiers electing this program.

In FY 91, $434,316,000 is requested for an average of 40,431 units to be occupied during the year.

	($000)
FY 90 APPROPRIATION	$319,142
Change in Section 801	+7,614
Change in Foreign Leasing	+10,100
Change in Domestic Leasing	+1,548
Governmental Rental Housing Program	+95,912
FY 91 PRESIDENT'S BUDGET REQUEST	$434,316

SUMMARY: A summary of authorizations and funds required is provided on the following pages.

ARMY FAMILY HOUSING
FISCAL YEAR 1991
LEASING PROGRAM

	FY 89			FY 90			FY 91		
	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)
DOMESTIC LEASING									
Ft Drum, NY	710	6,900	4,657	710	3,600	2,163	0	0	0
Ft Hood, TX	500	3,330	2,514	250	3,000	2,199	220	2,640	1,993
Ft Ord, CA	125	1,290	935	60	720	538	0	0	0
Oahu Consolidated Family Housing Office, HI	250	2,286	1,627	250	3,000	2,197	734	8,810	6,652
Unused Allocations	1,749			2,064			2,380		
Subtotal Domestic Leasing	3,334	13,806	9,733	3,334	10,320	7,097	3,334	11,450	8,645
Section 801	7,500	39,871	42,457	7,500	46,485	51,811	7,500	51,960	59,425
Total Domestic Leasing	10,834	53,677	$52,190	10,834	56,805	$58,908	10,834	63,410	$68,070
FOREIGN LEASING									
Bangladesh	2	24	32	2	24	40	2	24	40
Belgium	214	2,220	3,253	253	3,036	4,300	253	3,036	4,300
Brazil	0	0	0	1	12	20	1	12	20
Cameroon	1	12	17	2	24	40	2	24	40
Egypt	1	12	16	2	24	40	2	24	40
Germany	20,090	189,848	143,540	18,200	212,715	189,712	18,200	204,981	199,175
Govt Rental Housing Pgm	2,000		8,090	19,200	75,750	40,021	19,200	184,950	135,933
Greece	1	12	20	1	12	20	1	12	20
India	1	12	16	1	12	20	1	12	20
Indonesia	1	12	16	1	12	20	1	12	20
Israel	1	12	22	1	12	34	1	12	34
Italy	729	8,421	5,989	745	8,787	6,468	745	8,883	6,700
Ivory Coast	1	12	16	2	24	40	2	24	40
Jordan	1	12	16	6	72	120	6	72	120
Kenya	0	0	0	1	12	20	1	12	20
Korea	1,970	15,540	13,776	1,970	15,216	15,155	1,970	15,384	15,435

Exhibit FH-4

ARMY FAMILY HOUSING
FISCAL YEAR 1991
LEASING PROGRAM

	FY 89			FY 90			FY 91		
	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)	UNITS AUTHORIZED	NO. OF LEASE MONTHS PURCHASED	($000)
FOREIGN LEASING CONTINUED									
Malawi	1	12	16	2	24	40	2	24	40
Malaysia	1	12	16	1	12	20	1	12	20
Morocco	1	12	16	1	12	20	1	12	20
Netherlands	339	3,732	2,402	326	3,912	2,519	326	2,756	2,582
Pakistan	2	24	28	4	48	80	4	48	80
Panama	700	7,356	5,953	333	1,128	1,045	333	1,128	1,045
Portugal	0	0	0	1	12	20	1	12	20
Senegal	1	12	17	1	12	20	1	12	20
Spain	0	0	0	1	12	20	1	12	20
Sudan	1	12	17	2	24	40	2	24	40
Tunisia	4	48	48	1	12	20	1	12	20
Turkey	16	192	236	17	204	260	17	204	322
United Kingdom	0	0	0	0	0	0	0	0	0
Yugoslavia	1	12	16	1	12	20	1	12	20
Zaire	1	12	16	2	24	40	2	24	40
Total Foreign Leasing	26,081	227,585	$183,600	41,081	321,192	$260,234	41,081	421,766	$366,246
TOTAL LEASING PROGRAM	36,915	281,262	$235,790	51,915	377,997	$319,142	51,915	485,176	$434,316

Exhibit FH-4

ARMY FAMILY HOUSING
FY 1991 Section 801 Family Housing Summary
(Dollars in Thousands)

	No. of Units	FY of Initial Auth	Date of Award	Date of Full Occup	FY 90 Units	FY 90 Cost	FY 91 Units	Approp Request
Charles Melvin Price Support Center, MO	215*	88			0	0	0	0
Ft Belvoir, VA	200	88	Sep 90	Mar 91	0	300	100	1,180
	450	89	Jan 91	Jul 92	0	0	0	0
Ft Bliss, TX	150	87	Sep 89	Sep 91	100	725	150	1,488
	150	88	Sep 89	Sep 91	100	726	150	1,488
Ft Bragg, NC	450	88	Jul 90	Jul 92	0	756	0	0
Ft Campbell, KY	300	88	Jan 91	Jul 92	0	200	0	574
Ft Devens, MA	100	87	Jan 91	Jul 92	0	100	0	0
Ft Drum, NY	1,400	85	Aug 85	Dec 87	1,400	17,012	1,400	17,957
	300	86	Sep 86	Jun 88	300	3,506	300	4,405
	300	87	May 88	Sep 90	300	3,479	300	4,306
Ft Hood, TX	300	84	Mar 86	Jun 88	300	2,548	300	2,550
Ft Leavenworth, KS	280*	88	Apr 90	Jul 92	0	100	0	0
Ft McCoy, WI	80	88	Sep 89	Dec 90	0	121	80	508
Ft Myer, VA	600	89	Jan 91	Jul 92		150	0	0
Ft Polk, LA	300	84	Dec 85	Nov 87	300	2,880	300	2,880
	300	86	Sep 86	Jun 88	300	2,470	300	2,470
Ft Stewart, GA	200	88	May 90	May 91	0	100	200	2,210
	150*	89			0	0	0	0
Ft Wainwright, AK	400	85	Jan 86	Oct 87	400	9,385	400	9,385
	150	87	May 88	Nov 89	150	6,703	150	6,924
Oahu Consolidated Family Housing Office, HI	500	88	Jun 90	Jan 92	0	400	200	1,100
	215*	89			0	0	0	0
Walter Reed, DC	440	89	Jan 91	Sep 92	0	150	0	0
TOTAL	7,500	NA	NA	NA	3,650	$51,811	4,330	$59,425

* 280 units at Ft Leavenworth, KS deleted in the FY 91 PBD (322)
150 units at Ft Stewart, GA deleted due to lack of sufficient justification.
215 units at Charles Melvin Price Support Center, MO to be programmed.
215 units at OAHU, HI to be programmed.

Exhibit FH-5

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
DEBT PAYMENT

(In Thousands)	
FY 91 Program	$173
FY 90 Program	$180

PURPOSE AND SCOPE

This program includes payment of mortgage principal, interest and other expenses on remaining indebtedness for Capehart and acquired Wherry housing

and payment of Servicemen's Mortgage Insurance Premiums to FHA for mortgages assumed by active military personnel for housing purchased by them.

PROGRAM SUMMARY

Authorization is required for the appropriation of $173,000 in FY 91.

PROGRAM JUSTIFICATION

CAPEHART HOUSING

This program was completely paid off during FY 89.

WHERRY HOUSING

This program includes payments of mortgage principal and interest and other expenses related to Wherry Housing. A summary of prior, current, and budget years debt payment requirements for Wherry Housing is listed separately.

SERVICEMEN'S MORTGAGE INSURANCE PREMIUMS

This program provides for the payment of premiums due on mortgage insurance provided by the Federal Housing Administration for housing mortgages purchased by active duty military personnel. Also, it continues payments for cases where a serviceman dies while on active duty and leaves a surviving widow as owner of the property. Payments extend for a period of two years after death or until the widow disposes of the property, whichever occurs first. The maximum amount insurable by FHA is $67,500. The premium rate is 1/2 of 1 percent of the unpaid balance of the mortgage. The Department of Housing and Urban Development stopped processing applications for servicemen's mortgage insurance premiums as of 31 March 1980 with the discontinuance of Section 222 of the Housing Act.

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET

DEBT PAYMENT
($000)

TOA:	FY 89	FY 90	FY 91
Interest and Other Expense			
Capehart	7	0	0
Wherry	42	37	31
SUBTOTAL	49	37	31
Mortgage Insurance Premiums			
Servicemen's	31	21	18
SUBTOTAL			
Total Obligating Authority	80	58	49
FINANCING ADJUSTMENTS:	0	0	0
BUDGET AUTHORITY:	80	58	49
BUDGET AUTHORITY:			
Appropriation:	451	180	173
Portion Applied to Debt Reduction:			
Capehart	250	0	0
Wherry	121	122	124
SUBTOTAL	371	122	124
Appropriation (Adjusted)	80	58	49
FY 1991 APPROPRIATION RECAPITULATION			
Capehart			0
Wherry			155
Servicemen's Mortgage Insurance Premiums			18
TOTAL			173

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
ANALYSIS OF CAPEHART HOUSING
($000)

	FY 89	FY 90	FY 91
Total Debt Incurred	556,723		
Debt retired prior years	556,473		
Unpaid balance beginning of year	250	0	0
Estimated Debt retired during year (principal payments)	250	0	0
Estimated interest payments during year	7	0	0
Unpaid balance end of year	0	0	0
Number of mortgages outstanding beginning of year	1	0	0
Number of mortgages outstanding end of year	0	0	0

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET
ANALYSIS OF WHERRY HOUSING
($000)

	FY 89	FY 90	FY 91
Total Debt Incurred	154,892		
Debt retired prior ys	153,864		
Unpaid balance beginning of year	1,028	907	785
Estimated Debt retired during year (principal payments)	121	122	124
Estimated interest payments during year	42	37	31
Unpaid balance end of year	907	785	661
Number of mortgages outstanding beginning of year	1	1	1
Number of mortgages outstanding end of year	1	1	1

1 February 1990

ARMY FAMILY HOUSING
FY 1991 PRESIDENT'S BUDGET

DEBT PAYMENT - SERVICEMEN'S MORTGAGE INSURANCE PREMIUMS

FISCAL YEAR	MORTGAGES ON HAND	ESTIMATED TERMINATIONS	($) ESTIMATED AVERAGE PAYMENT	($000) ESTIMATED PAYMENT FOR YEAR
1988	465	89	84	39
1989	376	106	82	31
1990	270	55	78	21
1991	215	76	84	18

January 1990

HOMEOWNERS ASSISTANCE FUND, DEFENSE

(In Thousands)
FY 1990 Program - $6,200
FY 1991 Program - $5,300

Program and Scope

This fund finances the program for providing assistance to homeowners by reducing their losses incident to the disposal of their homes when the military installations at or near where they are serving or employed are ordered to be closed or the scope of operations is reduced. It was established in recognition of the fact that base closure and reduction actions can have serious economic effects on local communities. Personnel, military and federal civilian employees, who are required to relocate as a result of or during such actions, frequently cannot dispose of their homes under reasonable terms and conditions, and suffer severe financial hardship. Eligible personnel may be reimbursed for certain losses resulting from the sale of their home. Although the program provides for acquisition of dwellings, the Government does so only for the accommodation of the applicant. The homes are then resold by the Government. Every effort is made to insure each applicant is treated equally and receives the maximum benefits under the law as rapidly as practicable, but with a minimum expenditure of time and money for administration.

Program Summary

The fund is not a profit-making endeavor. Even though the proceeds from the sale of homes are returned to the fund, this revenue does not totally replenish it. The Homeowners Assistance Fund is not self-sustaining and appropriated funds are periodically required to maintain its purpose as a contingency fund. The requested amount is necessary to complete current programs and does not replenish the fund. The request does not include the Base Closure/Realignment funding requirement. Legislation has been approved which authorizes the transfer of not more than $31,000,000 from the Department of Defense Base Closure Account to fund this requirement. This will enable the Department of Army (executive agent) to effectively administer the Homeowners Assistance Fund in meeting future contingencies when installation locations and economic impacts cannot be adequately established in advance.

A summary of the funding for the FY 1990 and FY 1991 follows:

FY 1990			FY 1991		
Total Program ($000)	Less: Resources Applied ($000)	Requested Appropriated Amount ($000)	Total Program ($000)	Less: Resources Applied ($000)	Requested Appropriated Amount ($000)
6,200	1,100	5,100	5,300	200	5,100

Homeowners Asst Fund, Def.
Program and Financing (in Thousands of dollars)

29 Jan 90

Identification code 97-4090-0-3-051		1989 actual	1990 est.	1991 est.
	Program by activities:			
	Direct program:			
01.0101	Payment to homeowners (private sale and foreclosure assistan	327	522	515
01.0201	Other operating costs	2,980	1,515	1,144
02.0101	Acquisition of real property	1,032	1,536	2,206
02.0201	Mortgages assumed	6,557	2,634	1,435
10.0001	Total obligations	10,896	6,207	5,300
	Financing:			
	Offsetting collections from:			
14.0001	Non-Federal sources(-)	-10,882	-4,434	-5,075
17.0001	Recovery of prior year obligations	-4		
	Unobligated balance available, start of year:			
21.9001	Unobligated balance, SOY: Fund balance	-2,003	-1,022	-3,216
	Unobligated balance available, end of year:			
24.9001	Unobligated balance, EOY: Fund balance	1,022	3,216	5,977
32.4701	Balance of authority to borrow withdrawn	9,527	3,767	3,549
39.0001	Budget authority	8,557	7,734	6,535
	Budget authority:			
40.0001	Appropriation	2,000	5,100	5,100
67.1001	Authority to borrow (Substantive law) (Statutory citation)	6,557	2,634	1,435

Homeowners Asst Fund, Def.
Object Classification (in Thousands of dollars)

29 Jan 90

Identification code 97-4090-0-3-051		1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Personnel compensation:			
111.801	Special personal services payments	444	250	250
121.001	Travel and transportation of persons	42	25	25
	Other services:			
125.004	Other	2,494	1,240	822
132.001	Land and structures	7,589	4,170	3,688
142.001	Insurance claims and indemnities	327	522	515
199.001	Total Direct obligations	10,896	6,207	5,300
999.901	Total obligations	10,896	6,207	5,300

Homeowners Asst Fund, Def.
Program and Financing (In Thousands of dollars)
DEF ACCT SUMMARY
29 Jan 90

Identification code	97-4090-0-3-051	1989 actual	1990 est.	1991 est.
	Program by activities:			
	Direct program:			
01.0101	Payment to homeowners (private sale and foreclosure assistan	327	522	515
01.0201	Other operating costs	2,980	1,515	1,144
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02.0201	Mortgages assumed	6,557	2,634	1,435
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	Financing:			
	Offsetting collections from:			
14.0001	Non-Federal sources(-)	-10,882	-4,434	-5,075
17.0001	Recovery of prior year obligations	-4		
	Unobligated balance available, start of year:			
21.9001	Unobligated balance, SOY: Fund balance	-2,003	-1,022	-3,216
	Unobligated balance available, end of year:			
24.9001	Unobligated balance, EOY: Fund balance	1,022	3,216	5,977
32.4701	Balance of authority to borrow withdrawn	9,527	3,767	3,549
39.0001	Budget authority	8,557	7,734	6,535
	Budget authority:			
40.0001	Appropriation	2,000	5,100	5,100
67.1001	Authority to borrow (Substantive law) (Statutory citation)	6,557	2,634	1,435
	Relation of obligations to outlays:			
71.0001	Obligations incurred, net	14	1,773	225
72.9001	Obligated balance, start of year:Obligated balance, start of year, fund balance	1,601	509	1,282
74.9001	Obligated balance, end of year Obligated balance, end of year, fund balance	-509	-1,282	-507
78.0001	Adjustments in unexpired accounts	-4		
90.0001	Outlays	1,102	1,000	1,000

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FY 1991 BUDGET ESTIMATE

ARMY NATIONAL GUARD

DEPARTMENTS OF THE ARMY AND THE AIR FORCE · NATIONAL GUARD BUREAU

MILITARY CONSTRUCTION PROGRAM

FY 1991

JUSTIFICATION DATA SUBMISSION TO CONGRESS

JANUARY 1990

DEPARTMENT OF THE ARMY

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SUMMARY PROJECT LIST
MAJOR MILITARY CONSTRUCTION ARMY NATIONAL GUARD
FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT	APPROP AMOUNT	DD FORM 1391 PAGE
	INSIDE THE UNITED STATES			
ALABAMA	SELMA			
	ARMORY	1,447	1,447	4
	ORGANIZATIONAL MAINTENANCE SHOP	587	587	6
	STATE TOTAL	2,034	2,034	
ALASKA	AKIACHAK			
	SCOUT ARMORY EXPANSION	275	275	164
	CAMP CARROLL (ANCHORAGE)			
	TRNG SITE, LATRINE FACILITIES	866	866	11
	GOLOVIN			
	SCOUT ARMORY	275	275	164
	KASIGLUK			
	SCOUT ARMORY EXPANSION	275	275	164
	STATE TOTAL	1,691	1,691	
ARIZONA	PAPAGO MILITARY RESERVATION (PHOENIX)			
	U.S. PROPERTY & FISCAL OFFICER (USPFO) WAREHOUSE	1,605	1,605	15
	U.S. PROPERTY & FISCAL OFFICER (USPFO) OFFICE BUILDING	1,994	1,994	17
	STATE TOTAL	3,599	3,599	
FLORIDA	BROOKSVILLE			
	ARMORY	858	858	21
	TALLAHASSEE			
	ARMORY ADDITION/ALTERATION	721	721	25
	STATE TOTAL	1,579	1,579	
HAWAII	WAHIAWA			
	ARMORY ADDITION/ALTERATION	4,347	4,347	32
	STATE TOTAL	4,347	4,347	
INDIANA	CAMP ATTERBURY			
	RANGE, MODIFIED RECORD FIRE (RETS)	1,100	1,100	37
	STATE TOTAL	1,100	1,100	
IOWA	DENISON			
	ARMORY	989	989	41
	STATE TOTAL	989	989	

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT	APPROP AMOUNT	DD FORM 1391 PAGE
KANSAS	IOLA			
	ORGANIZATIONAL MAINTENANCE SHOP ADDITION/ALTERATION	399	399	164
	NICKELL BARRACKS			
	REGIONAL TRAINING SITE-MAINTENANCE	1,667	1,667	47
	STATE TOTAL	2,066	2,066	
LOUISIANA	BOGALUSA			
	ORGANIZATIONAL MAINTENANCE SHOP	783	783	52
	CAMP BEAUREGARD			
	ORGANIZATIONAL MAINTENANCE SHOP	680	680	58
	STATE TOTAL	1,463	1,463	
MAINE	BANGOR			
	ARMED FORCES RESERVE CENTER	3,058	3,058	63
	STATE TOTAL	3,058	3,058	
MICHIGAN	WAYNE COUNTY			
	ARMORY	2,634	2,634	70
	ORGANIZATIONAL MAINTENANCE SHOP	470	470	72
	STATE TOTAL	3,104	3,104	
MINNESOTA	MINNEAPOLIS			
	ARMORY	1,864	1,864	77
	STATE TOTAL	1,864	1,864	
NEVADA	CARSON CITY			
	COMBINED SUPPORT MAINTENANCE SHOP	3,048	3,048	84
	ORGANIZATIONAL MAINTENANCE SHOP	676	676	86
	STATE TOTAL	3,724	3,724	
NEW YORK	GUILDERLAND			
	MOUT ASSAULT COURSE RANGE	800	800	91
	STATE TOTAL	800	800	
NORTH CAROLINA	CLINTON			
	ARMORY	1,603	1,603	95
	STATE TOTAL	1,603	1,603	
NORTH DAKOTA	CAMP GRAFTON (DEVILS LAKE)			
	COMBINED SUPPORT MAINTENANCE SHOP ADDITION/ALTERATION	1,595	1,595	100
	STATE TOTAL	1,595	1,595	

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT	APPROP AMOUNT	DD FORM 1391 PAGE
OREGON	CAMP RILEA (WARRENTON)			
	RANGE, AUTOMATED RECORD FIRE (RETS)	913	913	105
	TRNG SITE, MEDICAL UNIT TRAINING FACILITY	312	312	165
	REDMOND			
	RANGE, BAFFLED 50 METER	971	971	109
	STATE TOTAL	2,196	2,196	
SOUTH DAKOTA	MITCHELL			
	ARMORY ADDITION/ALTERATION	954	954	119
	STATE TOTAL	954	954	
TENNESSEE	WINCHESTER			
	ARMORY	1,023	1,023	123
	STATE TOTAL	1,023	1,023	
TEXAS	CAMP MAXEY			
	RANGE, MODIFIED RECORD FIRE (RETS)	1,000	1,000	127
	EL PASO			
	ARMORY ADDITION/ALTERATION	2,027	2,027	131
	FORT WORTH			
	COMBINED SUPPORT MAINTENANCE SHOP	3,439	3,439	136
	STATE TOTAL	6,466	6,466	
UTAH	CAMP W.G. WILLIAMS			
	RANGE, MODIFIED RECORD FIRE (RETS)	1,070	1,070	141
	LOGAN			
	ARMORY ADDITION/ALTERATION	788	788	145
	STATE TOTAL	1,858	1,858	
VARIOUS	VARIOUS LOCATIONS			
	ARMORY UNIT STORAGE BUILDINGS	1,600	1,600	159
	RANGES, INDOOR MODERNIZATION	2,200	2,200	161
	STATE TOTAL	3,800	3,800	
VIRGINIA	NEWPORT NEWS			
	ARMORY	2,481	2,481	149
	SANDSTON			
	ARMY AVIATION SUPPORT FACILITY PHASE II	2,515	2,515	153
	STATE TOTAL	4,996	4,996	
WASHINGTON	EVERETT/SNOHOMISH			
	ORGANIZATIONAL MAINTENANCE SHOP	345	345	165
	STATE TOTAL	345	345	

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT	APPROP AMOUNT	DD FORM 1391 PAGE
WYOMING	CAMP GUERNSEY			
	TRNG SITE, ADMIN/SUPPLY/BARRACKS	983	983	157
	LANDER			
	ORGANIZATIONAL MAINTENANCE SUB-SHOP	277	277	165
	STATE TOTAL	1,260	1,260	
TOTAL WITHIN THE UNITED STATES:		57,514	57,514	
	OUTSIDE THE UNITED STATES			
PUERTO RICO	CAMP SANTIAGO (SALINAS)			
	RANGE, MODIFIED RECORD FIRE (RETS)	1,000	1,000	113
	STATE TOTAL	1,000	1,000	
TOTAL OUTSIDE THE UNITED STATES		1,000	1,000	
TOTAL MAJOR CONSTRUCTION:		58,514	58,514	
SUPPORT:				
	PLANNING AND DESIGN	4,100	4,100	167
	MINOR CONSTRUCTION	3,786	3,786	169
	SUPPORT TOTAL	7,886	7,886	
GRAND TOTAL AUTHORIZATION/APPROPRIATIONS		66,400	66,400	

NEW MISSION / CURRENT MISSION
FISCAL YEAR 1991

Location	Project	Cost ($000)	New/ Current
Selma, AL	Armory	1,447	C
	Organizational Maintenance Shop	587	C
Akiachak, AK	Scout Armory Expansion	275	C
Camp Carroll (Anchorage), AK	Trng Site, Latrine Facilities	866	C
Golovin, AK	Scout Armory	275	C
Kasigluk, AK	Scout Armory Expansion	275	C
Papago Military Reservation (Phoenix), AZ	U.S. Property & Fiscal Officer (USPFO) Warehouse	1,605	C
	U.S. Property & Fiscal Officer (USPFO) Office Building	1,994	C
Brooksville, FL	Armory	858	C
Tallahassee, FL	Armory Addition/Alteration	721	C
Wahiawa, HI	Armory Addition/Alteration	4,347	C
Camp Atterbury, IN	Range, Modified Record Fire (RETS)	1,100	C
Denison, IA	Armory	989	C
Iola, KS	Organizational Maintenance Shop Addition/Alteration	399	C
Nickell Barracks, KS	Regional Training Site - Maintenance	1,667	N
Bogalusa, LA	Organizational Maintenance Shop	783	C
Camp Beauregard, LA	Organizational Maintenance Shop	680	C
Bangor, ME	Armed Forces Reserve Center	3,058	C
Wayne County, MI	Armory	2,634	C
	Organizational Maintenance Shop	470	C
Minneapolis, MN	Armory	1,864	C
Carson City, NV	Combined Support Maintenance Shop	3,048	C
	Organizational Maintenance Shop	676	C
Guilderland, NY	MOUT Assault Course Range	800	N
Clinton, NC	Armory	1,603	C
Camp Grafton (Devils Lake), ND	Combined Support Maintenance Shop Addition/Alteration	1,595	C
Camp Rilea (Warrenton), OR	Range, Automated Record Fire (RETS)	913	C
	Trng Site, Medical Unit Training Facility	312	C
Redmond, OR	Range, Baffled 50 Meter	971	C
Camp Santiago (Salinas), PR	Range, Modified Record Fire (RETS)	1,000	C
Mitchell, SD	Armory Addition/Alteration	954	C
Winchester, TN	Armory	1,023	C
Camp Maxey, TX	Range, Modified Record Fire (RETS)	1,000	C
El Paso, TX	Armory Addition/Alteration	2,027	N
Fort Worth, TX	Combined Support Maintenance Shop	3,439	C
Camp W.G. Williams, UT	Range, Modified Record Fire (RETS)	1,070	C
Logan, UT	Armory Addition/Alteration	788	C
Newport News, VA	Armory	2,481	C
Sandston, VA	Army Aviation Support Facility, Phase II	2,515	C
Everett/Snohomish, WA	Organizational Maintenance Shop	345	C
Camp Guernsey, WY	Trng Site, Admin/Supply/Barracks	983	C
Lander, WY	Organizational Maintenance Sub-Shop	277	C

NEW MISSION / CURRENT MISSION
FISCAL YEAR 1991

Recapitulation:

Total New Mission	4,494
Total Current Mission	50,220
Total Various Locations (Armory Unit Storage Buildings)	1,600
Total Various Locations (Ranges, Indoor Modernization)	2,200
Total Planning & Design	4,100
Total Minor Construction	3,786
Grand Total	66,400

DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FY 1991

APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, ARMY NATIONAL GUARD

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Army National Guard, as authorized by Chapter 133 of Title 10, United States Code, as amended, and the Reserve Forces Facilities Act $66,400,000 ($223,490,000) (1) (2) to remain available until 30 September 1995 (30 September 1994).

Section 2 - EXPLANATION OF LANGUAGE

(1) Insertion of the FY 91 budget request.
(2) Deletion of the FY 90 appropriation.

Mil. Con., Army National Guard
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
Identification code	21-2085-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction	207,158	186,089	58,514	161,402	186,521	86,386
00.0201	Minor construction	8,000	7,500	3,786	7,891	8,091	3,929
00.0301	Planning	14,000	11,600	4,100	8,699	24,173	11,268
10.0001	Total	229,158	205,189	66,400	177,992	218,785	101,583
	Financing:						
17.0001	Recovery of prior year obligations				-795		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans				-37,510	-89,022	-75,426
21.4003	Available to finance new budget plans			-18,301			-18,301
21.4009	Reprograming from/to prior year budget pla	-449					
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				89,022	75,426	40,243
24.4003	Available to finance subsequent year budge		18,301	278		18,301	278
25.0001	Unobligated balance lapsing	449			449		
39.0001	Budget authority	229,158	223,490	48,377	229,158	223,490	48,377
	Budget authority:						
40.0001	Appropriation	229,158	223,490	66,678	229,158	223,490	66,678
41.2201	Transferred to other accounts (unob bals)			-18,301			-18,301
43.0001	Appropriation (adjusted)	229,158	223,490	48,377	229,158	223,490	48,377
	Relation of obligations to outlays:						
71.0001	Obligations incurred, net				177,992	218,785	101,583
72.4001	Obligated balance, start of year				187,953	223,659	247,444
74.4001	Obligated balance, end of year				-223,659	-247,444	-144,327
77.0001	Adjustments in expired accounts (net)				-540		
78.0001	Adjustments in unexpired accounts				-795		
90.0001	Outlays				140,951	195,000	204,700

Mil. Con., Army National Guard
Object Classification (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-2085-0-1-051		1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Other services:			
125.004	Other	65,920	9,428	9,595
126.001	Supplies and materials	24	58	59
131.001	Equipment		33	33
132.001	Land and structures	112,048	209,266	91,896
199.001	Total Direct obligations	177,992	218,785	101,583
999.901	Total obligations	177,992	218,785	101,583

1x

SPECIAL PROGRAM CONSIDERATIONS

POLLUTION ABATEMENT: The military construction projects proposed in the program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution programs at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

ENERGY CONSERVATION: Military construction projects specifically for energy conservation at installations have been developed, reviewed, and selected with prioritization by energy savings per investment cost. Projects include improvements to existing facilities and utilities systems to upgrade design, eliminate waste, and install energy savings devices. Projects are designed for minimum energy consumption.

FLOOD PLAIN MANAGEMENT AND WETLANDS PROTECTION: Proposed land acquisition, disposition, and installation construction projects have been planned to allow the proper management of flood plains and the protection of wetlands by avoiding long and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order No. 11988 and 11990.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL: In accordance with Public Law 90-480, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

PRESERVATION OF HISTORICAL SITES AND STRUCTURES: Facilities included in this program do not directly or indirectly affect a district, site, building, structure, object, or setting listed in the National Register of Historic Places except as noted on DD Form 1391.

USE OF EXCESS SCHOOLS AND OTHER BUILDINGS: Considerations were made to utilize available commercial or academic buildings but none were found suitable.

ENVIRONMENTAL PROTECTION: In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

ECONOMIC ANALYSIS: Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

NON-MILCON CONSTRUCTION: $76.1 million in the FY 91 OMARNG Base Operations program will maintain 12,920,512 SF in 1,369 logistical support buildings. Furthermore, it supports 265 training sites (1,378,400 acres) in the 54 states, territories and commonwealths used by the ARNG, ANG, Army and Air Force. The funding is dedicated to Annual Recurring Requirements of $52.3 million and routine or emergency maintenance and repair projects of approximately $23.8 million. No funding is dedicated to the containment and reduction of the Backlog of Maintenance and Repair (BMAR). BMAR will grow from $32 million in FY 88 to a projected $62 million in FY 91.

LONG-TERM FACILITIES CONTRACTS: The National Guard does not have any long-term facilities contracts.

CONSTRUCTION CRITERIA: Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

AREA COST FACTOR: Area Cost Factor (ACF) indexes displayed for each appropriate area were developed from State and historical construction cost records and may not directly collate with specific cost factors developed by the U. S. Army Corps of Engineers for Service-wide use.
RESERVE MANPOWER POTENTIAL: The Reserve manpower potential to meet and maintain authorized strengths of all Reserve units in the areas where units are to be located has been reviewed in accordance with the procedures described in DoD Directive 1200.1. It has been determined, in coordination with the other Military Departments having Reserve units in the area, that the number of Reserve components presently located in the area, and those units having been allocated to this area for future activation, is not and shall not be larger than the number that reasonably may be maintained at authorized strength.

1. COMPONENT
ARNG

FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION

2. DATE
31 JAN 90

3. INSTALLATION AND LOCATION
SELMA, ALABAMA

4. AREA CONSTR COST INDEX
1.00

5. FREQUENCY AND TYPE UTILIZATION
NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A 2-DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	MARION	(23 MILES)	ARMORY	11,725 SF	1955
	PRATTVILLE	(38 MILES)	ARMORY	19,495 SF	1976
USAR:	MARION	(23 MILES)	LEASED FACILITY		

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	COMPLETE
171	ARMORY	46,338 SF	1,447	3/88	7/89
214	ORGANIZATIONAL MAINTENANCE SHOP	9,448 SF	587	1/88	5/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.
14 NOV 89
(Date)

9. LAN[illegible]QUISITION REQUIRED
NONE
0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

1. COMPONENT		2. DATE
ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	31 JAN 90

3. INSTALLATION AND LOCATION
SELMA, ALABAMA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	12			12	723	100	623
ACTUAL	10			10	744	102	642

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS AND HEADQUARTERS COMPANY, 31ST AVIATION BATTALION (COMBAT) UIC N/A TPSN N/A	58	65
DETACHMENT 1, 252ND TRANSPORTATION COMPANY (AIRCRAFT MAINT) (INTERMEDIATE SUPPORT) UIC N/A TPSN N/A	94	101
ARMY AVIATION SUPPORT FACILITY NO. 1 UIC N/A TPSN N/A	54	54
HEADQUARTERS AND HEADQUARTERS COMPANY 122ND SUPPORT GROUP UIC WXBJAA TPSN 31158	85 *1*	93
1135TH GENERAL SUPPORT COMPANY UIC WTRKAA TPSN 31167	162	163

(CONTINUED)

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	207	162
TRAILERS	162	126

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
SELMA, ALABAMA

4 PROJECT TITLE
ARMORY AND ORGANIZATIONAL MAINTENANCE SHOP

5 PROJECT NUMBER
010031/010037

12. RESERVE UNIT DATA (Continued)

UNIT DESIGNATION	STRENGTH	
	AUTHORIZED	ACTUAL
DETACHMENT 1, 781ST TRANSPORTATION COMPANY (MEDIUM TRUCK PETROLEUM) UIC WVBKA1 TPSN 35692	89 *1*	78
DETACHMENT 1, 1133D MEDICAL COMPANY (AIR AMBULANCE) UIC WVGE99 TPSN 32756	127	129
DETACHMENT 2, 638TH ORDINANCE COMPANY (AMMUNITION) UIC WVRZA2 TPSN 33903	54 *1*	61
TOTAL	723	744

1 UNITS STATIONED AT ARMORY, THE OTHER UNITS ARE SUPPORTED BY OMS.

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	21	10.50
.75	75	56.25
1.00	72	72.00
1.125	61	68.63
1.250	2	2.50
TOTAL		209.88

NUMBER OF WORK BAYS

209.88 - 20 = 1
189.88 / 40 = 4.75

TOTAL = 5.75 = 6 BAYS

TOTAL AUTHORIZED WORK BAYS = 6

3

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION SELMA, ALABAMA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 010031	8. PROJECT COST ($000) 1,447

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,590
ARMORY BUILDING	SF	44,230	35.00	(1,548)
FLAMMABLE MATERIALS BUILDING	SF	86	20.00	(2)
UNHEATED METAL STORAGE BUILDING	SF	2,022	20.00	(40)
SUPPORTING FACILITIES				241
SITE PREPARATION (100% STATE)	LS	-	-	(25)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(3)
PARKING: MILITARY, OFF-STREET & ACCESS	SY	17,897	10.25	(184)
FENCING	LF	1,111	2.25	(2)
UTILITIES	LS	-	-	(12)
SIDEWALK & FLAGPOLE	LS	-	-	(15)
SUBTOTAL				1,831
CONTINGENCY (5%)				91
SUPERVISION, INSPECTION & OVERHEAD (1.40%)				20
FEDERAL SHARE				1,447
STATE SHARE ... NON ADD				(495)
TOTAL REQUEST				1,447
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(14)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent masonry type construction, brick and concrete block units with built-up roof and concrete floors. A one story structure with mechanical and electrical equipment. Supporting facilities include military vehicle storage compound, wash platform, off-street parking, sidewalks, utilities and access road.

Air Conditioning: 20 tons

11. REQUIREMENT: 46,338 SF ADEQUATE: 0 SF SUBSTANDARD: 25,043 SF

PROJECT: A new facility is requested to serve the peacetime mission of these units. The space will permit all personnel to perform the necessary tasks that will improve their readiness posture to support combat objectives. (Current Mission)

REQUIREMENT: This facility is required to support changed troop structure and added training requirement of the Headquarters, Headquarters Company, 122d Support Group, 1135th General Services CO, and Det 2, 638th Ordnance CO consisting of a total required strength of 228. This armory will provide the necessary administrative, indoor training and equipment and storage space to achieve proficiency in training to accomplish assigned readiness objectives. A 20 acre State owned site is available for construction of this project.

CURRENT SITUATION: These units are currently housed in an armory constructed in 1955 containing 25,043 SF. The armory has become overcrowded and inadequate to meet the requirements of the using units. The existing facility will be disposed of according to State procedures.

IMPACT IF NOT PROVIDED: Present facility will continue to adversely impact efforts to achieve assigned readiness objectives. The 21,295 SF deficiency has created an overcrowded condition which poses almost insurmountable problems in effective use of training time, security, and maintenance of equipment.

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1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

SELMA, ALABAMA

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 010031

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 3/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 11/88
(d) Date Design Complete........................ 7/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(60)
(d) Contract..................................(60)
(e) In-house..................................(0)

(4) Construction Start.......................... 10/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
J-SIIDS	AMSCO 5212.000	91	6
KITCHEN EQUIPMENT	AMSCO 522811.00	91	8

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION SELMA, ALABAMA	4. PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 010037	8. PROJECT COST ($000) 587

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				440
ORGANIZATIONAL MAINTENANCE SHOP	SF	9,297	47.00	(437)
FLAMMABLE MATERIALS BUILDING	SF	151	20.00	(3)
SUPPORTING FACILITIES				111
FUEL STORAGE & DISPENSING SYSTEM	LS	-	-	(12)
WASH PLATFORM	LS	-	-	(12)
SITE PREPARATION	LS	-	-	(14)
FENCING	LF	630	10.00	(6)
PAVING (FLEXIBLE)	SY	2,565	12.00	(31)
PAVING (RIGID)	SY	266	28.00	(7)
HARDSTAND	SY	1,140	5.00	(6)
LUBE & INSPECTION RACK	LS	-	-	(11)
UTILITIES: WATER, SEWER, GAS, TELECOM	LS	-	-	(12)
SUBTOTAL				551
CONTINGENCY (5%)				27
SUPERVISION, INSPECTION & OVERHEAD (1.55%)				9
TOTAL REQUEST				587
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A maintenance facility with six (6) work bays plus an administrative work area constructed of masonry, built-up roof and concrete floor. Supporting facilities include fuel dispensing system, lube and inspection rack, military vehicle storage, site preparation, used oil storage, wash rack and utilities.

Air Conditioning: 1 ton

11. REQUIREMENT: 9,448 SF ADEQUATE: 0 SF SUBSTANDARD: 3,154 SF

PROJECT: A new maintenance shop to provide organizational maintenance for the vehicles and equipment supported by this maintenance shop. (Current mission).

REQUIREMENT: A new facility requirement for 9,448 SF to permit organizational level maintenance to be performed on additional and new types of vehicles authorized by Table of Organization and Equipment/Table Distribution & Allowances of the supported units.

CURRENT SITUATION: The existing shop contains only 3,154 SF. This facility is inadequate and cannot support current authorized equipment in an efficient and cost effective manner because of insufficient work bays, supply and tool rooms. This facility also has shortages in work and support space for administrative, latrine, locker room, and break area functions.

IMPACT IF NOT PROVIDED: The quality and quantity of work will decrease due to deficient work and storage areas to perform administrative and maintenance duties.

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PAGE NO

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

SELMA, ALABAMA

4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP	5 PROJECT NUMBER 010037

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 1/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 9/88
(d) Date Design Complete....................... 5/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(27)
(d) Contract..................................(27)
(e) In-house..................................(0)

(4) Construction Start........................ 10/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)

NONE

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DD FORM 1 DEC 76 1391c PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION CAMP CARROLL (ANCHORAGE), ALASKA		4. AREA CONSTR COST INDEX 2.85

5. FREQUENCY AND TYPE UTILIZATION

WILL BE USED FOR WEEKEND TRAINING EIGHT WEEKENDS PER YEAR, THREE ANNUAL TRAINING PERIODS PER YEAR AND FOR NUMEROUS COURSES CONDUCTED BY THE ALASKA MILITARY ACADEMY 365 DAYS PER YEAR.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	US PROPERTY AND FISCAL OFFICE	(1 MILE)	22,880 SF 1982
ANG:	ANCHORAGE	(10 MILES)	AIR GUARD BASE
USA:	FORT RICHARDSON	(2 MILES)	ACTIVE ARMY POST
USAR:	FORT RICHARDSON	(2 MILES)	RESERVE CENTER
USAF:	ELMENDORF	(5 MILES)	AIR FORCE BASE

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	TRAINING SITE: LATRINE FACILITIES	4,800 SF	866	3/89	12/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

14 JUN 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

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1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP CARROLL (ANCHORAGE), ALASKA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					3,957	517	3,440
ACTUAL					3,154	387	2,767

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL UNITS ALASKA ARNG	3,957	3,154

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL

N/A

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP CARROLL (ANCHORAGE), ALASKA	4. PROJECT TITLE TRAINING SITE, LATRINE FACILITIES

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 020075	8. PROJECT COST ($000) 866

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				720
BUILDINGS - LATRINES (6)	SF	4,800	150.00	(720)
SUPPORTING FACILITIES				89
SITE PREPARATION	LS	-	-	(42)
UTILITIES, WATER, GAS, SEWER & ELECTRICAL	LS	-	-	(43)
SIDEWALKS	LS	-	-	(4)
SUBTOTAL				809
CONTINGENCY (5%)				40
SUPERVISION, INSPECTION & OVERHEAD (2.0%)				17
TOTAL REQUEST				866
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of a specially designed building added to two existing 40 person barracks and provide joint latrine facilities of permanent masonry type construction, concrete block units, with shingle roof and concrete floors. They will be one story structure with mechanical and electrical equipment.

Air Conditioning: None

11. REQUIREMENT: 4,800 SF ADEQUATE: 0 SF SUBSTANDARD: 0 SF

PROJECT: A new facility is required to be added between existing billeting to provide adequate latrine facilities. (Current mission).

REQUIREMENT: 6 each 800 SF facilities (4,800 SF total) are required to provide adequate latrine facilities between existing barracks during Inactive Duty Training and Annual Training periods conducted during the winter months.

CURRENT SITUATION: The existing latrines are detached from the barracks facilities and not conducive to effective training site utilization. The two existing latrines will be remodeled to serve as senior Noncommissioned Officer quarters.

IMPACT IF NOT PROVIDED: With the emphasis on winter training, detached latrine facilities continue to have an adverse effect on troop morale affecting the retention and recruiting of personnel and detract from readiness objectives.

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1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP CARROLL (ANCHORAGE), ALASKA		
4 PROJECT TITLE TRAINING SITE, LATRINE FACILITIES		5 PROJECT NUMBER 020075

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 3/89
(b) Percent Complete as of January 1990 ...... 65%
(c) Date Design Expected to be 35% Completed.... 9/89
(d) Date Design Complete........................ 12/90

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(19)
(d) Contract..................................(19)
(e) In-house..................................(0)

(4) Construction Start......................... 4/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	NONE		

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1. COMPONENT ARNG	**FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA		4. AREA CONSTR COST INDEX 1.56

5. FREQUENCY AND TYPE UTILIZATION

THIS IS A FULL-TIME FACILITY.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	TEMPE	(6 MILES)	ARMORY	5,788 SF	1954
ANG:	SKY HARBOR (PHOENIX)	(6 MILES)	ARMORY		
USAR:	OAK STREET CENTER	(1 MILE)	RESERVE CENTER		

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
441	UNITED STATES PROPERTY & FISCAL OFFICER (USP&FO) WAREHOUSE	31,596 SF	1,605	5/88	10/89
610	UNITED STATES PROPERTY & FISCAL OFFICER (USP&FO) OFFICE BUILDING	26,455 SF	1,994	4/88	10/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

10 MAY 89
(Date)

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

1. COMPONENT ARNG	**FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	73	10	51	12	5,381	638	4,743
ACTUAL	73	10	51	12	5,473	630	4,843

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
ALL UNITS ARIZONA ARNG	5,381	5,473

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL

N/A

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA	4. PROJECT TITLE U.S. PROPERTY & FISCAL OFFICER (USPFO) WAREHOUSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0505896A	441	040012	1,605

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY..............................				1,207
USPFO WAREHOUSE (INCLUDES TISA).............	SF	30,481	37.00	(1,128)
FLAMMABLE MATERIALS BUILDING................	SF	1,115	37.00	(41)
DOCK (COVERED).............................	LS	-	-	(38)
SUPPORTING FACILITIES.........................				291
SITE PREPARATION & DRAINAGE.................	LS	-	-	(100)
GRADING, SEEDING AND PLANTING...............	LS	-	-	(13)
HARDSTAND..................................	SF	19,140	6.00	(115)
PAVEMENTS: ASPHALTIC CONCRETE.............	SY	1,000	10.00	(10)
UTILITIES: GAS, WATER, SEWER, ELECT & PHONE	LS	-	-	(12)
FENCING & SECURITY LIGHTING................	LS	-	-	(41)
SUBTOTAL......................................				1,498
CONTINGENCY (5%)..............................				75
SUPERVISION, INSPECTION AND OVERHEAD (2.0%)...				32
TOTAL REQUEST.................................				1,605
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(10)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
A specially designed building of permanent concrete tilt-up panel construction, utilizing built-up roof and concrete floors with necessary mechanical and electrical systems.

Air Conditioning: 10 tons

11. REQUIREMENT: 31,596 SF ADEQUATE: 0 SF SUBSTANDARD: 11,900 SF

PROJECT: A free-standing warehouse facility that provides for an adequate logistical supply point to support the units of the Arizona Army National Guard. (Current Mission).

REQUIREMENT: The facility will be collocated with the proposed USPFO Administrative Office Building and is required to serve as a centralized supply issue point for the units of the Arizona Army National Guard, so that they can perform their combat missions.

CURRENT SITUATION: The USPFO warehouse conducts operations in a building that was constructed in 1963. The building has 11,900 SF and is totally inadequate for the current operational demand. The overcrowded warehouse creates a less than efficient operation and delays in deliveries of required supplies and equipment. This condition also creates potential situations where loss of control and accountability of Federal property could occur.

IMPACT IF NOT PROVIDED: If not constructed, the unit's mission will continue to be degraded and support to the Arizona Army National Guard will deteriorate and readiness will be adversely affected.

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1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA

4 PROJECT TITLE U. S. PROPERTY & FISCAL OFFICER (USPFO) WAREHOUSE	5 PROJECT NUMBER 040012

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started......................... 5/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 1/89
(d) Date Design Complete........................ 10/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(112)
(d) Contract..................................(112)
(e) In-house..................................(0)

(4) Construction Start.......................... 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
TELECOMMUNICATIONS	AMSCO 529895.10	91	5
J-SIIDS	AMSCO 5212.000	91	5

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1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA	4. PROJECT TITLE U.S. PROPERTY & FISCAL (USPFO) OFFICE BUILDING

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 610	7. PROJECT NUMBER 040026	8. PROJECT COST ($000) 1,994

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY.............................				1,852
USPFO OFFICE BUILDING........................	SF	26,455	70.00	(1,852)
SUPPORTING FACILITIES........................				163
GRADING AND SEEDING..........................	LS	-	-	(71)
SOIL STABILIZATION & PLANTING................	LS	-	-	(8)
OFF-STREET PARKING...........................	SY	1,890	12.00	(23)
ACCESS ROAD..................................	SY	1,200	12.00	(14)
SIDEWALK AND FLAGPOLE........................	LS	-	-	(4)
UTILITIES....................................	LS	-	-	(43)
SUBTOTAL.....................................				2,015
CONTINGENCY (5%).............................				100
SUPERVISION, INSPECTION AND OVERHEAD (2.0%)...				40
FEDERAL SHARE................................				1,994
STATE SHARE ....NON ADD				(165)
TOTAL REQUEST................................				1,994
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(55)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
A specially designed permanent, concrete structure with concrete floors, masonry block wall partitions, and built up roof, with necessary mechanical and electrical systems. Supporting facilities include employee parking and sidewalks.

Air Conditioning: 10 tons

11. REQUIREMENT: 26,455 SF ADEQUATE: 0 SF SUBSTANDARD: 9,469 SF

PROJECT: This project will provide a free-standing administrative office building to provide logistic and fiscal functions in support of training of Army National Guard units throughout the State of Arizona and enable supported units to better meet their assigned missions. (Current Mission)

REQUIREMENT: This facility is required to house the administrative, fiscal and logistical functions of the USPFO in support of the Arizona National Guard.

CURRENT SITUATION: The present function is housed in a Department of Emergency and Military Affairs building. Three other principal tenants occupy the building. The building was built in 1974 and is grossly overcrowded. The present Automated Data Processing (ADP) is inadequate and does not conform to the construction standards for an ADP facility. The ADP area does not meet security and safety requirements. The existing building cannot be economically expanded. The electrical distribution and sewage collection systems are being utilized to their maximum capacity. The building was designed for a maximum of 133 full-time employees; today there are 160 full-time employees, not including the drill weekends when there are 236 additional personnel. The existing space will revert to armory functions.

IMPACT IF NOT PROVIDED: The USPFO can not adequately provide the support required to meet the combat readiness and the units training missions.

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DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

PAPAGO MILITARY RESERVATION (PHOENIX), ARIZONA

4 PROJECT TITLE U.S. PROPERTY & FISCAL (USPFO) OFFICE BUILDING	5 PROJECT NUMBER 040026

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 4/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 12/88
(d) Date Design Complete....................... 10/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(140)
(d) Contract..................................(140)
(e) In-house..................................(0)

(4) Construction Start........................ 10/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
TELECOMMUNICATIONS	AMSCO 529895.10	91	40
J-SIIDS	AMSCO 5212.000	91	15

1. COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
BROOKSVILLE, FLORIDA

4. AREA CONSTR COST INDEX
1.44

5. FREQUENCY AND TYPE UTILIZATION
NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	DADE CITY	(20 MILES)	ARMORY	12,777 SF	1955
	LEESBURG	(42 MILES)	ARMORY	9,108 SF	1950
ANG:	TAMPA	(45 MILES)	ARMORY	5,000 SF	1984 (TEMP)

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY	20,147 SF	858	6/87	12/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.
26 JAN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE
0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
BROOKSVILLE, FLORIDA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	3		2	1	84	15	69
ACTUAL	3		2	1	94	17	77

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
COMPANY B, 3RD SPECIAL FORCES BATTALION 20TH SPECIAL FORCES GROUP UIC WTPEB0 TPSN 25320	84	94

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION BROOKSVILLE, FLORIDA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 120041	8. PROJECT COST ($000) 858

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				967
ARMORY BUILDING	SF	20,037	48.00	(962)
FLAMMABLE MATERIALS BUILDING	SF	110	48.00	(5)
SUPPORTING FACILITIES				178
SITE PREPARATION & DRAINAGE (100% STATE)	LS	-	-	(65)
SITE FINISHING & LANDSCAPING	LS	-	-	(24)
EXTERIOR/ASSEMBLY HALL FIRE PROTECTION	LS	-	-	(19)
PAVING: OFF-STREET & ACCESS ROAD	SY	3,727	11.00	(41)
UTILITIES: GAS, WATER, SEWER, ELECT & PHONE	LS	-	-	(29)
STATE ITEMS (100%)				144
INTERIOR IMPROVEMENTS	LS	-	-	(66)
EXTERIOR IMPROVEMENTS	LS	-	-	(78)
SUBTOTAL				1,289
CONTINGENCY (5%)				64
SUPERVISION, INSPECTION & OVERHEAD (1.42%)				12
FEDERAL SHARE				858
STATE SHARE ... NON ADD				(507)
TOTAL REQUEST				858
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(33)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed facility of permanent masonry type construction of brick and concrete block units, with built-up roof and concrete floors. A one story structure with mechanical and electrical equipment with associated vehicle parking areas. Supporting facilities include a military vehicle parking compound and a wash platform to be provided with State funding.

Air Conditioning: 24 tons

11. REQUIREMENT: 20,147 SF   ADEQUATE: 0 SF   SUBSTANDARD: 5,600 SF

PROJECT: This project is requested to provide the required space to permit the unit to perform its assigned mission. The requested training, logistical and administrative authorizations are the minimum essential areas required to effectively train and accomplish the combat readiness objectives. The existing temporary armory facility is leased by the Hernando County Commissioners to the Armory Board of the State of Florida. (Current Mission).

REQUIREMENT: A new armory is required to permit the new assigned unit to attain and maintain the desired readiness, commensurate with the mobilization missions. The appropriate indoor training facilities, as well as adequate and secure storage for equipment, is required. The new facility will be constructed on a 15.46 ± acre site, leased to the FLARNG and located in an area more conducive to the unit's functions and activities.

CURRENT SITUATION: The existing facility is a temporary armory with 5,600 SF. It is leased from the Hernando County Commissioners to the Armory Board of the State of Florida and will be returned to the County when the lease expires.

IMPACT IF NOT PROVIDED: Assigned personnel will be required to use the overcrowded temporary armory facility which is completely inadequate in all functional and training areas. The unit's combat readiness posture will continue to be hampered by lack of adequate facilities to support its administrative, logistical, and operational needs.

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1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

BROOKSVILLE, FLORIDA

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 120041

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 6/87
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 6/88
(d) Date Design Complete......................... 12/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(37)
(d) Contract..................................(37)
(e) In-house..................................(0)

(4) Construction Start........................ 2/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
KITCHEN EQUIPMENT	AMSCO 522811.00	91	27
J-SIIDS	AMSCO 5212.000	91	6

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1. COMPONENT
ARNG

FY 19 91 GUARD AND RESERVE
MILITARY CONSTRUCTION

2. DATE
31 JAN 90

3. INSTALLATION AND LOCATION
TALLAHASSEE, FLORIDA

4. AREA CONSTR COST INDEX
1.44

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH TWO 2-DAY TRAINING ASSEMBLIES PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	QUINCY	(23 MILES)	ARMORY	13,113 SF	1954
USAR:	TALLAHASSEE	(6 MILES)	CENTER	21,966 SF	1958/1986
USMCR:	TALLAHASSEE	(9 MILES)	CENTER	10,640 SF	1959/1977

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY ADDITION/ ALTERATION	31,239 SF	721	6/87	10/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

06 JAN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT		2. DATE
ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	31 JAN 90

3. INSTALLATION AND LOCATION
TALLAHASSEE, FLORIDA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	16	1	10	5	251	39	212
ACTUAL	16	1	10	5	259	36	223

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS, HEADQUARTERS DETACHMENT 53RD SIGNAL BRIGADE UIC WQWAAA TPSN 35007	94	93
COMPANY A, 3RD BATTALION, 124TH INFANTRY UIC WQV9A0 TPSN 1305341	147	150
494TH MEDICAL DETACHMENT UIC WVNUAA TPSN 32861	10	16
TOTAL	251	259

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	25	24
TRAILERS	10	15
GENERATORS	4	6

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION TALLAHASSEE, FLORIDA	4. PROJECT TITLE ARMORY ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 120033	8. PROJECT COST ($000) 721

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				827
ARMORY ADDITION	SF	14,136	50.00	(707)
ARMORY ALTERATION	SF	17,103	7.00	(120)
SUPPORTING FACILITIES				138
SITE PREPARATION & DRAINAGE (100% STATE)	LS	-	-	(50)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(10)
SECURITY FENCING & LIGHTING, EXT FIRE PROT.	LS	-	-	(10)
PAVING, FLEXIBLE & WALKS	LS	-	-	(51)
UTILITIES: GAS, WATER, SEWER, ELECT & PHONE	LS	-	-	(15)
STATE ITEM-100% FIRE SAFETY EQUIPMENT	LS	-	-	(2)
SUBTOTAL				965
CONTINGENCY (5%)				48
SUPERVISION, INSPECTION & OVERHEAD (1.47%)				10
FEDERAL SHARE				721
STATE SHARE NON ADD				(302)
TOTAL REQUEST				721
EQUIP PROVIDED FROM OTHER FED APPR NON ADD				(33)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Expansion/Alteration of an existing one story, masonry construction (brick and block) National Guard Armory to relieve sever overcrowding which now exists. Project will include additional administrative, storage, classroom, and training areas. Additional parking space and mechanical equipment are also required.

Air Conditioning: 41 tons

11. REQUIREMENT: 31,239 SF ADEQUATE: 0 SF SUBSTANDARD: 17,103 SF

PROJECT: An expansion/alteration to the existing Armory is required to serve the peacetime mission of the units assigned to this location. The expanded and updated facility will provide an adequate resource to allow all personnel to perform necessary tasks that will improve their readiness posture for support in combat objectives. The current nineteen and one half (19 1/2) acre county leased site is sufficient for this project. (Current Mission)

REQUIREMENT: Expansion is urgently needed to support changed troop and training mission by providing adequate space for administration, training and supply operations of Headquarters, Headquarters Detachment, 53rd Signal Brigade, 494th Medical Detachment, and CO A 3rd Battalion, 124th Infantry. This will enable these units to accomplish proficiency in training and assigned readiness objective.

CURRENT SITUATION: The present armory at Tallahassee was constructed in 1975 as a two unit facility. The combined authorized strength of the units currently stationed at this facility is 251. All functional areas are so badly overcrowded that administrative, supply, and training are being adversely affected. The facility is structurally sound and there is adequate land for expansion, which is felt to be far more cost effective and feasible than replacement with a new facility.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION TALLAHASSEE, FLORIDA		
4 PROJECT TITLE ARMORY ADDITION/ALTERATION		5 PROJECT NUMBER 120033

11. REQUIREMENT (Continued)

IMPACT IF NOT PROVIDED: Assigned units will remain in an inadequate, overcrowded facility. This will have an adverse affect on accomplishment of readiness and training objectives. Continued operation under existing conditions will be a detriment to troop morale and welfare and have a negative impact on recruiting and retention efforts.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION TALLAHASSEE, FLORIDA		
4 PROJECT TITLE ARMORY ADDITION/ALTERATION		5 PROJECT NUMBER 120033

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
- (a) Date Design Started........................... 6/87
- (b) Percent Complete as of January 1990 ...... 100%
- (c) Date Design Expected to be 35% Completed.... 4/88
- (d) Date Design Complete........................ 10/89

(2) Basis:
- (a) Standard or Definitive Design - Yes____ No X
- (b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
- (a) Production of Plans and Specifications....(0)
- (b) All Other Design Costs....................(0)
- (c) Total.....................................(32)
- (d) Contract..................................(32)
- (e) In-house..................................(0)

(4) Construction Start........................ 1/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	27
J-SIIDS	AMSCO 5212.000	91	6

1 COMPONENT ARNG	**FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION**	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION WAHIAWA, HAWAII		4. AREA CONSTR COST INDEX 2.04

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A 2-DAY TRAINING ASSEMBLY PER MONTH

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	WHEELER AFB	(1 MILE)	ARMORY	25,674 SF	1983
	PEARL CITY	(5 MILES)	ARMORY	21,368 SF	1974
USA:	SCHOFIELD BARRACKS	(2 MILES)			
USN:	WAHIAWA COMMUNICATIONS	(4 MILES)			
USN/USNR/USMCR:	PEARL HARBOR	(9 MILES)			

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY ADDITION/ ALTERATION	66,328 SF	4,347	4/86	2/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

27 SEP 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
WAHIAWA, HAWAII

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	32		26	6	630	59	571
ACTUAL	29		23	6	453	40	413

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS SUPPORT 1ST BATTALION, 487 FIELD ARTILLERY UIC WQLVT0 TPSN 0302911	240	141
BATTERY A, 1ST BATTALION, 487 FIELD ARTILLERY UIC WQLVA0 TPSN 0302911	73	70
BATTERY B, 1ST BATTALION, 487 FIELD ARTILLERY UIC WQLVB0 TPSN 0302911	73	57
TROOP E, 19TH ARMOR CAVALRY UIC WPVGAA TPSN 1302907	72	59
CO D, 1ST BATTALION, 299 INFANTRY UIC WPV4D0 TPSN 1302941	88	68

(CONTINUED)

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION WAHIAWA, HAWAII		
4 PROJECT TITLE ARMORY ADDITION/ALTERATION		5 PROJECT NUMBER 150016

12. RESERVE UNIT DATA (Continued)

UNIT DESIGNATION	STRENGTH	
	AUTHORIZED	ACTUAL
129TH SIGNAL DETACHMENT UIC WYDLAA TPSN 1302904	55	36
MORTAR PLATOON, 1ST BATTALION, 299 INFANTRY UIC WPV4T0 TPSN 1302941	29	22
TOTAL	630	453

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION WAHIAWA, HAWAII	4. PROJECT TITLE ARMORY ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 150016	8. PROJECT COST ($000) 4,347

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				4,606
ARMORY ADDITION	SF	40,965	85.00	(3,482)
ARMORY ALTERATION	SF	24,523	45.00	(1,103)
UNHEATED METAL STORAGE BUILDING	SF	840	25.00	(21)
SUPPORTING FACILITIES				707
SITE PREPARATION	LS	-	-	(60)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(61)
FENCING	LF	1,547	15.00	(23)
PARKING: MILITARY, OFF-STREET & ACCESS	SY	27,171	17.00	(462)
UTILITIES: ELEC, WATER, SEWER, & TELECOM	LS	-	-	(36)
SIDEWALK, SECURITY LIGHTS, WASH RACK	LS	-	-	(65)
SUBTOTAL				5,313
CONTINGENCY (5%)				266
SUPERVISION, INSPECTION & OVERHEAD (1.37%)				60
FEDERAL SHARE				4,347
STATE SHARE ... NON ADD				(1,292)
TOTAL REQUEST				4,347
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(116)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Specially designed armory addition facility of permanent concrete masonry type construction with built-up roof and concrete floors, also includes: alteration of existing space. A two-story structure with mechanical and electrical equipment. Design to match existing armory facility. Minor alteration of additional outside supporting facilities will be required.

Air Conditioning: 77 tons

11. REQUIREMENT: 66,328 SF ADEQUATE: 0 SF SUBSTANDARD: 24,523 SF

PROJECT: An armory addition/alteration is requested to meet the peacetime training mission of the assigned units. The addition/alteration to the existing armory will bring it up to present criteria. (Current Mission)

REQUIREMENT: This armory addition/alteration is required to support the changed troop structure and relocated units of the Headquarters & Headquarters Support, Battery A and Battery B, 1-487th FA: Troop E, 19th Armor Cavalry: CO D, 1-299 Infantry; 129th Signal Detachment and Mortar Platoon, 1-299 Infantry whose total Required strength is 630 personnel. This armory addition/alteration will provide the necessary administration, indoor training areas and equipment storage space to achieve the proficiency in required training and to accomplish assigned readiness objectives. An additional 5 acre site adjacent to the present armory (which is on State owned land) is owned by the US Army licensed to the National Guard for vehicle parking areas.

CURRENT SITUATION: The present armory, consisting of 24,523 SF, was constructed in 1958. With the restationing of units (undertaken to locate combat arms units closer to active component training areas) the existing armory is not adequate.

IMPACT IF NOT PROVIDED: Assigned units will be required to continue to travel long distances to their training areas, adversely impacting on the readiness posture.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

WAHIAWA, HAWAII

4 PROJECT TITLE ARMORY ADDITION/ALTERATION	5 PROJECT NUMBER 150016

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started......................... 4/86
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 9/87
(d) Date Design Complete........................ 2/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(177)
(d) Contract..................................(177)
(e) In-house..................................(0)

(4) Construction Start........................ 1/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	30
Telephone Equipment	AMSCO 529895.10	91	6
J-SIIDS	AMSCO 5212.000	91	40
Range Equipment	AMSCO 518893.30	91	40

33

1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP ATTERBURY, INDIANA		4 AREA CONSTR COST INDEX 1.57

5 FREQUENCY AND TYPE UTILIZATION

TRAINING SITE USED FOR WEEKEND TRAINING 44 WEEKENDS PER YEAR BY 22 BATTALIONS AND 50 COMPANY-SIZE UNITS. TRAINING SITE WILL BE USED FOR ANNUAL TRAINING 12 WEEKS PER YEAR BY 5 BRIGADE-SIZE UNITS

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	COLUMBUS	(15 MILES)	ARMORY 16,855 SF 1979
	EDINBURGH	(0 MILES)	ARMORY 67,081 SF 1987
USAR:	CAMP ATTERBURY	(0 MILES)	ARMED FORCES RESERVE CENTER 1974

7 PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	MODIFIED RECORD FIRE (RETS) RANGE	LS	1,100	3/87	8/88

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

25 JUL 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

FY 92	TRAINING FACILITIES, PHASE 6B	$6,077
FY 92	RANGE, MULTIPURPOSE MACHINE GUN	$1,130
FY 93	RANGE, INFANTRY SQUAD	$2,132
FY 94	AMMUNITION SUPPLY POINT	$3,454

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP ATTERBURY, INDIANA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE						N/A	
ACTUAL						N/A	

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL UNITS INDIANA ARNG PLUS UNITS FROM OHIO, KENTUCKY, ILLINOIS AND MISSOURI	N/A	N/A
USAR UNITS FROM OHIO, KENTUCKY, ILLINOIS AND INDIANA		
OTHER UNITS OF USAFR, ANG, USMCR, USNR, AND ACTIVE ARMY FROM FORT KNOX, FORT CAMPBELL, AND FORT BENJAMIN HARRISON		

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP ATTERBURY, INDIANA	4. PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 180028	8. PROJECT COST ($000) 1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				864
RANGE; MODIFIED RECORD FIRE (16 LANES)	LS	-	-	(800)
CONTROL TOWER	SF	128	500.00	(64)
SUPPORTING FACILITIES				168
SITE PREPARATION AND DRAINAGE	LS	-	-	(18)
ACCESS ROAD, SERVICE ROAD & MILITARY PARK	SY	3,331	10.00	(33)
RANGE SUPPORT & MAINTENANCE BUILDING	SF	800	47.00	(37)
AMMO BREAKDOWN BLDG	SF	107	101.00	(11)
GRADING AND SEEDING	SY	-	-	(52)
ELECTRICAL SERVICE	LS	-	-	(5)
PA SYSTEM	LS	-	-	(12)
SUBTOTAL				1,032
CONTINGENCY (5%)				52
SUPERVISION, INSPECTION & OVERHEAD (2.0%)				16
TOTAL REQUEST				1,100
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(241)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of a 16-point Modified Record Fire Range (MRF) Remote Target System (RETS) with supporting facilities to include access road and parking area.

Air Conditioning: 4 tons (Control tower only)

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: A 16-point Modified Record Fire Remote Target System (RETS) Range with standard site adapted facilities, designed for individual weapons proficiency to meet annual M-16 rifle qualification requirements. This project covers 27 acres of Federal land licensed to the State of Indiana. (Current Mission)

REQUIREMENT: The proposed range would provide a needed training resource to accomplish the required annual weapons training and qualification tasks during annual training.

CURRENT SITUATION: Currently there are four 25M ranges which are inadequate to meet current qualification requirements. Two of these ranges will be modified and converted for the proposed range.

IMPACT IF NOT PROVIDED: Due to inadequate existing range facilities, individual weapons training objectives will be delayed. The development and maintaining of combat skills needed to deploy rapidly is essential as the number of National Guard units increase. Without adequate range facilities, any requirements that must be deferred cannot be accomplished.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP ATTERBURY, INDIANA

4 PROJECT TITLE RANGE, MODIFIED RECORD FIRE	5 PROJECT NUMBER 180028

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 3/87
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 10/87
(d) Date Design Complete........................ 8/88

(2) Basis:
(a) Standard or Definitive Design - Yes X No
(b) Where Design Was Most Recently Used HNDM 1110-1-5

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(77)
(d) Contract..................................(77)
(e) In-house..................................(0)

(4) Construction Start......................... 10/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
RETS TARGETRY	OPA	91	241

1. COMPONENT
ARNG

FY 19 91 GUARD AND RESERVE
MILITARY CONSTRUCTION

2. DATE
31 JAN 90

3. INSTALLATION AND LOCATION
DENISON, IOWA

4. AREA CONSTR COST INDEX
1.19

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	**AUDUBON**	**(42 MILES)**	**ARMORY**	**13,480 SF**	**1957**
	MAPLETON	**(28 MILES)**	**ARMORY**	**11,752 SF**	**1949**
	CARROLL	**(28 MILES)**	**ARMORY**	**16,759 SF**	**1986**

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY	23,013 SF	989	4/88	6/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

14 DEC 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
DENISON, IOWA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	3		3		84	3	81
ACTUAL	3		3		77	2	75

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
COMPANY C (-), 2-133RD INFANTRY UIC WPXMCO TPSN 0304742	84	77

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	7	7
TRAILERS	6	4
TRACKED VEHICLES	13	5

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION DENISON, IOWA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 190017	8. PROJECT COST ($000) 989

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,082
ARMORY BUILDING	SF	23,013	47.00	(1,082)
SUPPORTING FACILITIES				187
SITE PREPARATION (100% STATE)	LS	-	-	(30)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(19)
FENCING	LF	506	10.00	(6)
PARKING: MILITARY, OFF-STREET & ACCESS	SY	6,059	11.00	(67)
WASH PLATFORM (INCLUDES RIGID PAVING)	LS	-	-	(10)
UTILITIES: WATER, SEPTIC, ELECTRIC	LS	-	-	(32)
SIDEWALK AND FLAGPOLE	LS	-	-	(6)
FUEL DISPENSING SYSTEM INCLUDES RIGID PAVING	LS	-	-	(17)
SUBTOTAL				1,269
CONTINGENCY (5%)				63
SUPERVISION, INSPECTION & OVERHEAD (1.42%)				14
FEDERAL SHARE				989
STATE SHARE ... NON ADD				(357)
TOTAL REQUEST				989
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(14)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent masonry type construction, brick and concrete block units with a built-up roof and concrete floors. A one story structure with mechanical and electrical. Outside supporting facilities include: military and off street parking, wash platform, etc.

Air Conditioning: 6 tons

11. REQUIREMENT: 23,013 SF ADEQUATE: 0 SF SUBSTANDARD: 9,973 SF

PROJECT: A new facility is requested to replace existing facility which is too small and inadequate for modern army training. The new facility will permit this unit to perform the required training that will improve their readiness and will assist them in meeting their deployment objectives. (Current Mission)

REQUIREMENT: The facility is required to house Company C(-) 2/133rd Infantry consisting of 84 required personnel. This armory will provide the necessary administration, classroom, and equipment storage space to achieve the proficiency in required training and assigned readiness objectives. It will also provide unit level maintenance area. A 7.5 acre State owned site is available for construction of this facility.

CURRENT SITUATION: The present armory is a converted farm disc factory containing 9,973 SF built in 1955. The present facility was not designed or constructed for an armory building, thus making the present facility totally inadequate for the unit's mission. The drill floor is deteriorating rapidly and is not usable for most activities. There is also no maintenance training area. There is a drainage problem on the side of the armory with civilian parking.

41

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION DENISON, IOWA		
4 PROJECT TITLE ARMORY		5 PROJECT NUMBER 190017

11. REQUIREMENT (Continued)

IMPACT IF NOT PROVIDED: Lack of required space and impractical construction of space available will continue to adversely affect the areas of training, recruiting, and ultimately, unit readiness and the unit's ability to perform their assigned mission.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

DENISON, IOWA

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 190017

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 4/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 8/88
(d) Date Design Complete...................... 6/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(42)
(d) Contract..................................(42)
(e) In-house..................................(0)

(4) Construction Start........................ 4/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telecommunications	AMSCO 529895.10	91	2
J-SIID	AMSCO 5212.000	91	4
Kitchen Equipment	AMSCO 522811.00	91	8

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION NICKELL BARRACKS, KANSAS		4. AREA CONSTR COST INDEX 1.05

5. FREQUENCY AND TYPE UTILIZATION

THIS IS A FULL TIME FACILITY.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	SALINA	(3 MILES)	ARMORY	9,861 SF	1956
	SALINA	(4 MILES)	AASF	24,350 SF	1974

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	REGIONAL TRAINING SITE - MAINTENANCE	27,537 SF	1,667	8/86	1/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

2 MAY 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
NICKELL BARRACKS, KANSAS

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	13	2	11	0			
ACTUAL	13	2	10	0			

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
CO D, 735TH SUPPORT BATTALION UIC WV6FD0 TPSN 04035	192	198
304TH LIGHT EQUIPMENT MAINTENANCE UIC N/A TPSN N/A	N/A	N/A
107TH MAINTENANCE COMPANY UIC WQDVAA TPSN 29427	218	218
COMPANY B, 169TH SUPPORT BATTALION UIC WV89B0 TPSN 04035	183	123
287TH MAINTENANCE BATTALION UIC WVKNAA TPSN 31129	57	68
323RD MAINTENANCE BATTALION UIC WQVWAA TPSN 31733	N/A	N/A

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION NICKELL BARRACKS, KANSAS	4. PROJECT TITLE REGIONAL TRAINING SITE-MAINTENANCE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 200023	8. PROJECT COST ($000) 1,667

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,362
REGIONAL MAINTENANCE TRAINING SITE	SF	24,709	53.20	(1,315)
FLAMMABLE MATERIALS BUILDING	SF	428	25.00	(11)
UNHEATED METAL STORAGE	SF	2,400	15.00	(36)
SUPPORTING FACILITIES	SF			204
SITE PREPARATION, GRADING, SEEDING, PLANTING	LS	-	-	(36)
WASH PLATFORMS	LS	-	-	(12)
WASTE OIL TANK	LS	-	-	(2)
PAVING: RIGID	SY	2,433	28.00	(68)
PAVING: FLEXIBLE	SY	2,906	10.50	(31)
MILITARY VEHICLE PARKING (HARDSTAND)	SY	1,125	6.60	(7)
SIDEWALKS	LS			(2)
FENCE AND GATES	LF	800	10.00	(8)
UTILITIES	LS	-	-	(38)
SUBTOTAL				1,566
CONTINGENCY (5%)				78
SUPERVISION, INSPECTION & OVERHEAD (1.40%)				23
TOTAL REQUEST				1,667
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(2,595)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a maintenance facility of 10 work bays, administrative and personnel areas, and classroom, training device lab, library/learning center. Construction will be masonry with a built-up roof and concrete floor. Supporting facilities include a wash platform, military vehicle compound, public parking and adequate utilities.

Air Conditioning: 15 tons

11. REQUIREMENT: 27,537 SF ADEQUATE: 0 SF SUBSTANDARD: 0 SF

PROJECT: This project will provide 27,537 SF of required space to permit the training of maintenance personnel from Army National Guard and Reserve units in this region. (New mission).

REQUIREMENT: The concept of establishing Regional Maintenance Training Sites support the Headquarters, Department of the Army Management Action Plan. This facility will provide a site to conduct both weekday and weekend training of highly technical maintenance personnel on a year round basis. The training, storage and administrative space provided is the minimum essential area needed to effectively train and accomplish current readiness objectives.

CURRENT SITUATION: Currently, there are no existing facilities that can be utilized for the level of training and instruction needed to maintain a high level of proficiency for the military specialities found in maintenance units.

IMPACT IF NOT PROVIDED: The desired level of training will not be obtained due to the non-availability of training devices, equipment and facilities at unit locations adversely affecting readiness.

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DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

NICKELL BARRACKS, KANSAS

4 PROJECT TITLE REGIONAL TRAINING SITE-MAINTENANCE	5 PROJECT NUMBER 200023

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 8/86
(b) Percent Complete as of January 1990 ...... 90%
(c) Date Design Expected to be 35% Completed.... 9/89
(d) Date Design Complete........................ 1/90

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.......................................(65)
(d) Contract....................................(65)
(e) In-house....................................(0)

(4) Construction Start.......................... 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Training Devices	OPA	91	2,592
J-SIIDS	AMSCO 5212.000	91	3

1. COMPONENT
ARNG

FY 19 91 GUARD AND RESERVE
MILITARY CONSTRUCTION

2. DATE
31 JAN 90

3. INSTALLATION AND LOCATION
BOGALUSA, LOUISIANA

4. AREA CONSTR COST INDEX
1.44

5. FREQUENCY AND TYPE UTILIZATION
NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	FRANKLINTON	(15 MILES)	ARMORY	15,718 SF	1973
	BOGALUSA	(2 MILES)	ARMORY	17,432 SF	1974
	COVINGTON	(25 MILES)	ARMORY	11,303 SF	1956

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	ORGANIZATIONAL MAINTENANCE SHOP	9,810 SF	783	1/87	3/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

22 JUN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
BOGALUSA, LOUISIANA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	11			11	569	33	536
ACTUAL	8			8	604	33	571

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS COMPANY 205TH ENGINEER BATTALION UIC WQP3T0 TPSN 21364	106	131
COMPANY A, 205TH ENGINEER BATTALION UIC WQP3A0 TPSN 21364	133	139
COMPANY B, 205TH ENGINEER BATTALION UIC WQP3B0 TPSN 21364	165	159
COMPANY D, 205TH ENGINEER BATTALION UIC WQP3D0 TPSN 21364	165	175
TOTAL	569	604

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	186	166
TRAILERS	95	83
TRACKED VEHICLES	17	17

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION BOGALUSA, LOUISIANA		
4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP		5 PROJECT NUMBER 220019

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	13	6.50
.75	49	36.75
1.00	37	37.00
1.125	104	117.00
TOTAL		197.25

NUMBER OF WORK BAY

197.25 - 20 = 1
177.25 / 40 = 5

TOTAL AUTHORIZED WORK BAYS = 6

1. COMPONENT	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BOGALUSA, LOUISIANA	ORGANIZATIONAL MAINTENANCE SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
0505896A	214	220019	783

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				612
ORGANIZATIONAL MAINTENANCE SHOP	SF	8,810	65.00	(572)
COVERED UNHEATED STORAGE	SF	1,000	40.00	(40)
SUPPORTING FACILITIES				122
SITE PREPARATION (GRADING & SEEDING)	LS	-	-	(12)
FUEL STOR/DISP AND WASTE OIL STORAGE TANK	LS	-	-	(21)
LUBE AND INSPECTION RACK	LS	-	-	(22)
WASH PLATFORM	LS	-	-	(6)
PAVING ASPHALT, CONCRETE, HARDSTAND	SY	4,515	8.86	(40)
FENCING	LF	755	8.93	(7)
UTILITIES: WATER, GAS, SEWER	LS	-	-	(5)
WASTE OIL STORAGE TANK	GAL	1,000	2.00	(2)
HAZARDOUS WASTE STORAGE FACILITY	LS	-	-	(7)
SUBTOTAL				734
CONTINGENCY (5%)				37
SUPERVISION, INSPECTION & OVERHEAD (1.50%)				12
TOTAL REQUEST				783
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(1)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construction will consist of a single story masonry structure on a concrete slab, masonry block partitions, and a standing seam metal roof. This new facility will have six work bays, administrative areas, and outside supporting facilities. A 7.5 ton capacity crane will also be included.

Air Conditioning: 1.5 tons

11. REQUIREMENT: 9,810 SF ADEQUATE: 0 SF SUBSTANDARD: 6,656 SF

PROJECT: A new maintenance shop to provide organizational maintenance for the vehicles and equipment to be supported by this maintenance shop. (Current Mission).

REQUIREMENT: A total building size of 8,810 SF, plus a 1,000 SF covered storage area, and outside supporting facilities is required to permit maintenance at the organizational level to be performed on vehicles authorized by the Table of Organization and Equipment for each supporting unit. The facilities will be located on a track of land containing 3.0 acres.

CURRENT SITUATION: The existing shop was constructed in 1949 and consists of 6,656 gross SF. Due to the age of the building, its limited work space and, lacking the necessary supporting facilities, the current building is inadequate for efficient and cost effective maintenance of combat equipment.

IMPACT IF NOT PROVIDED: The building will continue to age and deteriorate, and building maintenance costs will accelerate. An adverse impact on the level and availability of equipment and maintenance will be felt.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION BOGALUSA, LOUISIANA		
4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP		5 PROJECT NUMBER 220019

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 1/87
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 9/88
(d) Date Design Complete........................ 3/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(46)
(d) Contract..................................(46)
(e) In-house..................................(0)

(4) Construction Start........................ 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telephone Equipment	AMSCO 529895.10	91	1

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1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP BEAUREGARD, LOUISIANA		4 AREA CONSTR COST INDEX 1.44

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK, WITH AT LEAST ONE TWO-DAY TRAINING ASSEMBLY PER MONTH.

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	ALEXANDRIA	(10 miles)	ARMORY	10,843 SF	1955
USAR:	ALEXANDRIA	(10 miles)	OMS	3,159 SF	1978
USAF:	ALEXANDRIA	(10 miles)	ENGLAND AIR FORCE BASE (ACTIVE BASE)		

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	ORGANIZATIONAL MAINTENANCE SHOP #4	8,441 SF	680	6/88	5/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

22 JUN 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

FY 92	MODIFIED RECORD FIRE RANGE	$866
FY 92	KNOWN DISTANCE RANGE	$453
FY 93	MOUT ASSAULT RANGE	$800

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP BEAUREGARD, LOUISIANA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	9			9	602	59	543
ACTUAL	8			8	656	45	611

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS, HEADQUARTERS DETACHMENT (-) 199TH SUPPORT BATTALION UIC WQP1T0 TPSN 0400535	139	146
COMPANY C (MED), 199TH SUPPORT BATTALION UIC WQP1C0 TPSN 0400535	94	185
COMPANY B, 199TH SUPPORT BATTALION UIC WQP1B0 TPSN 0400535	369	325
TOTAL	602	656

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	212	133
TRAILERS	138	138

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP BEAUREGARD, LOUISIANA

4 PROJECT TITLE
ORGANIZATIONAL MAINTENANCE SHOP #4

5 PROJECT NUMBER
220023

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	3	1.50
.75	74	55.50
1.00	121	121.00
1.125	14	15.75
TOTAL	212	193.75

NUMBER OF WORK BAYS

193.75 - 20 = 1
173.75 / 40 = 4

TOTAL = 5 BAYS

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP BEAUREGARD, LOUISIANA	4. PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP #4

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 220023	8. PROJECT COST ($000) 680

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				527
ORGANIZATIONAL MAINTENANCE SHOP	SF	7,441	65.40	(487)
COVERED UNHEATED STORAGE	SF	1,000	40.00	(40)
SUPPORTING FACILITIES				111
SITE PREPARATION	LS	-	-	(19)
FLEXIBLE PAVING	SY	2,159	12.50	(27)
RIGID PAVEMENT (CONCRETE)	SY	111	27.00	(3)
STABILIZED HARDSTAND (LIMESTONE)	SY	1,750	7.00	(12)
LUBE AND INSPECTION RACK	LS	-	-	(22)
WASH PLATFORM	LS	-	-	(8)
WASTE OIL STORAGE TANK	GAL	1,000	2.00	(2)
HAZARDOUS WASTE STORAGE FACILITY	LS	-	-	(7)
FENCING	LF	687	12.00	(8)
UTILITIES: WATER, GAS, SEWER	LS	-	-	(3)
SUBTOTAL				638
CONTINGENCY (5%)				32
SUPERVISION, INSPECTION & OVERHEAD (1.52%)				10
TOTAL REQUEST				680
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(1)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construction will consist of a single story masonry structure on a concrete slab with a standing seam roof and a covered unheated storage building. This facility will have five work bays, administrative areas, and outside supporting facilities.

Air Conditioning: 1 tons

11. REQUIREMENT: 8,441 SF ADEQUATE: 0 SF SUBSTANDARD: 4,103 SF

PROJECT: The project is to construct a new 5 work bay maintenance facility in support of the authorized vehicles and equipment. (Current Mission).

REQUIREMENT: A new OMS building of 8,441 SF, totaling 5 work bays, and the supporting facilities is requested to permit organizational maintenance.

CURRENT SITUATION: The present facility, constructed in 1969, a total building size of 2,503 SF, is inadequate in work, administrative, storage and latrine space. In 1982 a separate 2 work bay (1,600 SF) metal building was constructed near the existing OMS to provide additional support and will revert to the Facility Engineer Vehicle Maintenance Building. The existing facility is located such that linear expansion is not suitable. Currently, areas for supply, tool, locker, break room and bulky equipment room are required.

IMPACT IF NOT PROVIDED: Maintenance support will continue to be deficient and cause backlogs. An overcrowded and congested facility will reduce the productivity and adversely affected the readiness mission.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

CAMP BEAUREGARD, LOUISIANA

4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP #4	5 PROJECT NUMBER 220023

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
- (a) Date Design Started........................ 6/88
- (b) Percent Complete as of January1990 ...... 100%
- (c) Date Design Expected to be 35% Completed....11/88
- (d) Date Design Complete....................... 5/89

(2) Basis:
- (a) Standard or Definitive Design - Yes____ No X
- (b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
- (a) Production of Plans and Specifications....(0)
- (b) All Other Design Costs....................(0)
- (c) Total.....................................(30)
- (d) Contract..................................(30)
- (e) In-house..................................(0)

(4) Construction Start......................... 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telephone Equipment	AMSCO 529895.10	91	1

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION BANGOR, MAINE	4. AREA CONSTR COST INDEX 1.34

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH TWO DAY TRAINING ASSEMBLIES FOUR WEEKENDS PER MONTH AND UTILIZED TWO NIGHTS PER WEEK BY RESERVISTS AND ONE NIGHT PER MONTH BY THE NATIONAL GUARD

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG/ANG:	**BANGOR INTERNATIONAL AIRPORT**				
ARNG:	**BANGOR**	(4 MILES)	**ARMORY**	14,392 SF	1931
	BREWER	(6 MILES)	**ARMORY**	25,040 SF	1942
USAR:	**BANGOR**	(5 MILES)	**RESERVE CENTER**	12,870 SF	1955
USNR:	**BANGOR**	(6 MILES)	**RESERVE CENTER**	18,736 SF	1951

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMED FORCES RESERVE CENTER	79,903 SF	3,058	6/88	3/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE JOINT CONSTRUCTION.

18 OCT 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
BANGOR, MAINE

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	38	4	30	4	631	58	573
ACTUAL	33	4	25	4	662	57	605

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS COMPANY 262ND ENGINEER BATTALION (COMBAT CORPS) UIC WP1WT0 TPSN 21353	171	206
COMPANY A (-), 262ND ENGINEER BATTALION (COMBAT CORPS) UIC WP1WA0 TPSN 21353	69	68
U.S. NAVY RESERVE	257	264
COMPANY C, 76TH DIVISION TRAINING GROUP UIC W7VBA6 TPSN 61076	59	60
SECTION 1, 1125TH U.S. ARMY HOSPITAL	75	64
TOTAL	631	662

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	91	82
TRAILERS	51	40
TRACKED VEHICLES	5	3
WHEELED VEHICLES (TMP) USAR 3/USNR 2	5	5

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION BANGOR, MAINE	4. PROJECT TITLE ARMED FORCES RESERVE CENTER

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 230004	8. PROJECT COST ($000) 3,058

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				4,579
ARMED FORCES RESERVE CENTER	SF	75,258	59.00	(4,440)
UNHEATED METAL STORAGE BUILDING	SF	4,410	30.00	(132)
FLAMMABLE MATERIALS BUILDING	SF	235	30.00	(7)
SUPPORTING FACILITIES				1,095
SITE PREPARATION	LS	-	-	(175)
SITE LANDSCAPING AND FINISHING	LS	-	-	(135)
FENCING	LF	1,148	14.50	(17)
PARKING: MILITARY, OFF-STREET & ACCESS	SY	13,373	14.00	(188)
RIGID PAVING	SY	533	75.00	(540)
UTILITIES: WATER, SEWER AND TELECOM	LS	-	-	(40)
SUBTOTAL				5,674
CONTINGENCY (5%)				284
SUPERVISION, INSPECTION & OVERHEAD (1.37%)				71
FEDERAL (ARNG) SHARE				3,058
FEDERAL (USAR) SHARE ... NON ADD				(1,156)
FEDERAL (USNR) SHARE ... NON ADD				(1,815)
TOTAL REQUEST				3,058
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(175)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed facility of permanent masonry type construction, brick and concrete block units with standing seam metal pitched roof and concrete floors. A two-story structure with mechanical and electrical equipment. Construction will include exterior storage buildings, a wash rack, fuel dispensing system, parking and landscaping sufficient to complete the facility.

Air Conditioning - 4 tons

11. REQUIREMENT: 79,903 SF ADEQUATE: 0 SF SUBSTANDARD: 71,038 SF

PROJECT: A new facility is required to serve the peacetime mission and provide sufficient space for the assigned units of the Maine Army National Guard (MEARNG) and the U.S. Army Reserve (USAR) and U.S. Naval Reserve (USNR). Additional on site space will allow for the parking and storage of all assigned military vehicles. (Current Mission)

REQUIREMENT: This facility is required to support the changed troop structure and mission of a Tri-Service Reserve Center for the Headquarters and Headquarters Company and Company A (-), 262 Engineer Battalion (Combat Corps) of the MEARNG; Company C, 76 Division Training Group and Section 1, 1125TH U.S. Army Hospital and the U. S. Navy Reserve consisting of 631 personnel as well as their authorized equipment. This armory will provide the necessary administrative, indoor training areas, equipment training and storage areas to achieve the proficiency in required training and to accomplish the assigned readiness objectives. A 178 acre Federally owned site is available for construction of this project.

CURRENT SITUATION: The current Bangor armory houses the Headquarters, and Headquarters Company, 262 Engineer Battalion and was constructed in 1931. This facility is in poor repair, extremely energy inefficient and in conjunction with the small site poorly configured to support this unit.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION BANGOR, MAINE		
4 PROJECT TITLE ARMED FORCES RESERVE CENTER		5 PROJECT NUMBER 230004

11. REQUIREMENT (Continued)

The existing armory is State owned and will be disposed of in accordance with State laws. The current Brewer armory houses Company A (-) 262nd Engineer Battalion and was constructed in 1942. This facility is in poor repair, extremely energy inefficient and in conjunction with the small site poorly configured to support this unit. This armory is State owned and will be utilized to relieve overcrowding at other facilities in the State. The USNR is housed in two quonset huts constructed in 1948 and contain 18,736 SF of functional space. Annual maintenance requirements have reached levels above reasonable economic justification for retention of the current facility. The USAR is housed in a facility constructed in 1955 containing 12,870 SF of functional space. The USAR units are severely cramped in this structure as it was constructed to house only 60 members.

IMPACT IF NOT PROVIDED: All units will continue to use their existing overcrowded facilities, which are deficient in essential training space. These conditions will have a detrimental effect upon the units' morale, retention and readiness.

1 COMPONENT
ARNG

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2 DATE
31 JAN 90

3 INSTALLATION AND LOCATION
BANGOR, MAINE

4 PROJECT TITLE
ARMED FORCES RESERVE CENTER

5 PROJECT NUMBER
230004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status: 6/88
(a) Date Design Started..........~~1990~~.......... 75%
(b) Percent Complete as of January 1/89
(c) Date Design Expected to be 35% Completed.... 3/90
(d) Date Design Complete.......................

(2) Basis: X
(a) Standard or Definitive Design - Yes N/A No____
(b) Where Design Was Most Recently Used____________

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(308)
(c) Total.....................................(308)
(d) Contract..................................(0)
(e) In-house..................................( )

(4) Construction Start......................... 4/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	30
J-SIIDS	AMSCO 5212.000	91	45
Telecommunications	AMSCO 529895.10	91	100

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION WAYNE COUNTY, MICHIGAN		4. AREA CONSTR COST INDEX 1.59

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A 2-DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	DETROIT	(8 MILES)	ARMORY 109,784 SF	1944
USAR:	DETROIT	(9 MILES)	RESERVE CENTER	
	LIVONIA	(8 MILES)	RESERVE CENTER	
USN :	DETROIT	(10 MILES)		

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY	51,449 SF	2,634	12/86	12/89
214	ORGANIZATIONAL MAINTENANCE SHOP	5,247 SF	470	12/86	12/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

13 MAY 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
WAYNE COUNTY, MICHIGAN

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICE	ENLISTED
UTHORIZE	7			7	509	29	480
AL	7			7	504	24	

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS BATTERY 1-182ND FIELD ARTILLERY UIC WPUAT0 TPSN 21843	118	126
BATTERY A, 1-182ND FIELD ARTILLERY UIC WPUAA0 TPSN 21843	103	104
BATTERY B, 1-182ND FIELD ARTILLERY UIC WPUAB0 TPSN 21843	103	102
BATTERY C, 1-182ND FIELD ARTILLERY UIC WPUAC0 TPSN 21843	103	96
SERVICE BATTERY, 1-182ND FIELD ARTILLERY UIC WPUAS0 TPSN 21843	82	76
TOTAL	509	504

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	74	75
TRAILERS	58	85
TRACKED VEHICLES	32	27

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION WAYNE COUNTY, MICHIGAN		
4 PROJECT TITLE ARMORY AND ORGANIZATIONAL MAINTENANCE SHOP		5 PROJECT NUMBER 260043/260101

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	11	5.50
.75	21	15.75
1.00	41	41.00
1.125	30	33.75
1.250	3	3.75
TOTAL		99.75

NUMBER OF WORK BAYS

99.75 - 20 = 1
79.75 / 40 = 2

TOTAL AUTHORIZED WORK BAYS = 3

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DD FORM 1 DEC 76 1391c PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

MCB-DPC-Ms 82

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION WAYNE COUNTY, MICHIGAN	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 260043	8. PROJECT COST ($000) 2,634

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				3,083
ARMORY BUILDING	SF	51,324	60.00	(3,079)
FLAMMABLE MATERIALS BUILDING	SF	125	30.00	(4)
SUPPORTING FACILITIES				291
SITE PREPARATION (100% STATE)	LS	-	-	(35)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(24)
FENCING AND GATES	LF	1,128	13.00	(15)
PARKING: OFF-STREET AND ACCESS	SY	12,620	13.50	(170)
SIDEWALK & FLAGPOLE	LS	-	-	(7)
UTILITIES	LS	-	-	(40)
SUBTOTAL				3,374
CONTINGENCY (5%)				169
SUPERVISION, INSPECTION AND OVERHEAD (1.37%)				43
FEDERAL SHARE				2,634
STATE SHARE NON ADD				(952)
TOTAL REQUEST				2,634
EQUIP PROVIDED FROM OTHER FED APPR NON ADD				(34)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent masonry type construction with concrete block and brick units, concrete floors and built up roof. A two story structure with modern plumbing, mechanical and electrical systems. Outside supporting facilities to include lighting, flagpole, sidewalks and parking.

Air Conditioning - 25 tons

11. REQUIREMENT: 51,449 SF ADEQUATE: 0 SF SUBSTANDARD: 400,000 SF

PROJECT: This new facility is requested to serve the peacetime mission of the 1-182 Field Artillery Battalion. The space will permit all personnel to perform the tasks that will improve their readiness posture to meet combat objectives. (Current Mission)

REQUIREMENT: This facility is required to support changed troop structure, new mission training and relocation of the 1-182 Field Artillery Battalion consisting of 509 Required personnel. This armory will provide the necessary administrative, indoor training areas and equipment storage space to achieve proficiency in required training to accomplish the assigned readiness objectives.

CURRENT SITUATION: The building that currently houses the 1-182 Field Artillery units is a converted defense plant that was purchased in 1948 by Michigan for $25,000. The size of this facility along with the excessive maintenance costs, and less than adequate areas, combine to make retention of this substandard facility impractical. This facility will be disposed of.

IMPACT IF NOT PROVIDED: The assigned units would be required to use the existing substandard facility with its high maintenance and operational costs. The existing conditions will continue to impact negatively on troop morale, affecting retention and recruiting.

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1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
WAYNE COUNTY, MICHIGAN

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 260043

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................12/86
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 4/88
(d) Date Design Complete.......................12/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(113)
(d) Contract..................................(113)
(e) In-house..................................(0)

(4) Construction Start......................... 3/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
KITCHEN EQUIPMENT	AMSCO 522811.00	91	25
J-SIIDS	AMSCO 5212 000	91	9

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1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION WAYNE COUNTY, MICHIGAN	4. PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 260101	8. PROJECT COST ($000) 470

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				281
ORGANIZATIONAL MAINTENANCE SHOP	SF	5,137	54.00	(278)
FLAMMABLE MATERIALS BUILDING	SF	110	30.00	(3)
SUPPORTING FACILITIES				160
SITE PREPARATION, GRADING, SEEDING & DRAINAGE	LS	-	-	(10)
PADS, WALKS AND SERVICE APRON (RIGID)	LS	-	-	(12)
PAVING; FLEXIBLE	SY	1,700	12.35	(21)
LUBE & INSPECTION RACK	LS	-	-	(8)
WASH RACK	LS	-	-	(10)
FENCE AND GATES	LF	384	11.00	(4)
FUEL DISPENSING SYSTEM	LS	-	-	(70)
UTILITIES	LS	-	-	(25)
SUBTOTAL				441
CONTINGENCY (5%)				22
SUPERVISION, INSPECTION & OVERHEAD (1.60%)				7
TOTAL REQUEST				470
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a maintenance facility with three work bays, administrative and personnel areas, to be constructed of masonry block, built-up roof and concrete floor; masonry block partitions and single membrane roofing system. Supporting facilities include a lube and inspection rack, paving, and wash rack.

Air Conditioning: 2 tons

11. REQUIREMENT: 5,247 SF ADEQUATE: 0 SF SUBSTANDARD: 2,527 SF

PROJECT: A new maintenance shop to provide organizational maintenance support for units' vehicles and equipment supported by this maintenance shop. (Current Mission)

REQUIREMENT: A 5,247 SF maintenance shop is required to provide support level maintenance to be performed on additional and new types of combat vehicles and equipment authorized to the supported units of the Michigan Army National Guard. Adequate land is available.

CURRENT SITUATION: Current maintenance operations are being conducted in inadequate, substandard facilities that were not designed to support equipment of type authorized these units.

IMPACT IF NOT PROVIDED: Organizational maintenance support for these units will be critically hindered if this facility is not constructed. This will have an adverse effect on the readiness of these units supported by this shop.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE ~~31 JAN 90~~
3 INSTALLATION AND LOCATION WAYNE COUNTY, MICHIGAN		
4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP		5 PROJECT NUMBER 260101

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started..........................12/86
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 1/89
(d) Date Design Complete.........................12/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(22)
(d) Contract..................................(22)
(e) In-house..................................(0)

(4) Construction Start.......................... 3/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	NONE		

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DD FORM 1 DEC 76 1391c

NGB-DPC-No 82

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT
ARNG

FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION

2 DATE
31 JAN 90

3 INSTALLATION AND LOCATION
MINNEAPOLIS, MINNESOTA

4 AREA CONSTR COST INDEX
1.59

5 FREQUENCY AND TYPE UTILIZATION
NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A 2-DAY TRAINING ASSEMBLY PER MONTH

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ANG:	MINNEAPOLIS/ST PAUL	(8 MILES)	AVIATION HANGAR
USAR:	FORT SNELLING	(8 MILES)	RESERVE CENTER
USNR:	FORT SNELLING	(8 MILES)	U.S. NAVAL
USMC:	FORT SNELLING	(8 MILES)	MARINE CORPS
NAVAIRESCEN:	FORT SNELLING	(8 MILES)	

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY	39,849 SF	1,864	10/87	12/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

9 FEB 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 138/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
MINNEAPOLIS, MINNESOTA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	16	2	13	1	219	23	196
ACTUAL	12	2	9	1	212	25	187

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS BATTERY 1-151ST FIELD ARTILLERY UIC WPU1T0 TPSN 0304711	137	139
BATTERY B, 1-151ST FIELD ARTILLERY UIC WPU1B0 TPSN 0304711	82	73
TOTAL	219	212

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	63	65
TRAILERS	55	49

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION MINNEAPOLIS, MINNESOTA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 270006	8. PROJECT COST ($000) 1,864

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				2,123
ARMORY BUILDING	SF	39,009	53.87	(2,101)
UNHEATED METAL STORAGE BUILDING	SF	840	26.00	(22)
SUPPORTING FACILITIES				232
SITE PREPARATION (100% STATE)	LS	-	-	(21)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(32)
OFF-STREET PARKING/ACCESS ROADS	SY	7,332	10.36	(76)
FENCING	LF	787	10.00	(8)
SIDEWALK, FLAG POLE, SECURITY LIGHTING	LS	-	-	(16)
UTILITIES: (WATER, SEWER, ELECTRIC)	LS	-	-	(17)
WASH RACK (ENCLOSED)	LS	-	-	(23)
MILITARY VEHICLE PARKING	SY	3,821	10.36	(39)
SUBTOTAL				2,355
CONTINGENCY (5%)				118
SUPERVISION, INSPECTION & OVERHEAD (1.37%)				25
FEDERAL SHARE				1,864
STATE SHARE NON ADD				(634)
TOTAL REQUEST				1,864
EQUIP PROVIDED FROM OTHER FED APPR NON ADD				(16)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent, masonry type construction with membrane roof and concrete slab floor. Included will be all utilities, parking lots, fencing, flagpole, sidewalk, security lighting, and an enclosed wash rack. The facility will utilize the most economical energy sources available at the proposed location.

Air Conditioning: 22 tons

11. REQUIREMENT: 39,849 SF ADEQUATE: 0 SF SUBSTANDARD: 24,620 SF

PROJECT: A new 39,849 SF facility is required to serve the peacetime mission of Headquarters and Headquarters Battery (HHB) 1/151 Field Artillery (FA) and Battery B. 1/151 FA. HHB is currently housed in the Duluth Armory but is programed for stationing in a new Minneapolis Armory facility as part of the State's ongoing plan to maximize efficiency in the location of its assigned units. B Battery is presently housed in the old, deteriorated Minneapolis armory which in no longer adequate to train the assigned units. The requested space will permit all personnel to perform the necessary tasks that will improve combat readiness and accomplishment of training objectives. A six (6) acre State owned site is available for construction of this project. (Current Mission).

REQUIREMENT: This facility is required to support changed troop structure, new mission training and the relocation of the assigned units, HHB and B Battery of the 1/151 FA with a combined authorized personnel strength of 219. This facility will provide the necessary administration, indoor training, mess, and equipment storage areas to achieve proficiency in required training and to accomplish the assigned readiness objectives.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
MINNEAPOLIS, MINNESOTA

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 270006

11. REQUIREMENT (Continued)

CURRENT SITUATION: HHB, 1/151 FA is presently located in the Duluth Armory. Under a new stationing plan HHB would move to new Minneapolis facility because the existing Duluth armory is not adequate to accommodate the units now assigned. When HHB 1/151 relocates the Duluth Armory will then be adequate for the remaining units. B Battery of 1/151 FA is presently located in the 51 year old Minneapolis armory. This facility is functionally inadequate and badly deteriorated. The facility is located in the downtown business district and has no space for civilian parking. Military vehicle parking is also severely deficient.
IMPACT IF NOT PROVIDED: The Minneapolis armory's present location on a 2.5 acre site prohibits expansion required to meet current and projected administrative, equipment, and training requirements. The building which is 51 years old has deteriorated inside and out. These functional and structural deficiencies adversely affect the unit's efficiency and readiness posture. Additionally, the image created by this structure in the community has an adverse effect on recruiting, retention and troop morale. Parking for civilian vehicles, when available, it presently on the street which is very disruptive to the community.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION MINNEAPOLIS, MINNESOTA		
4 PROJECT TITLE ARMORY		5 PROJECT NUMBER 270006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................10/87
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 8/88
(d) Date Design Complete........................12/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(73)
(d) Contract..................................(73)
(e) In-house..................................(0)

(4) Construction Start.......................... 3/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	12
J-SIIDS	AMSCO 5212.000	91	4

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DD FORM 1 DEC 76 1391c — PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED — PAGE NO

1 COMPONENT ARNG	**FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION**	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION **CARSON CITY, NEVADA**		4 AREA CONSTR COST INDEX 1.52

5 FREQUENCY AND TYPE UTILIZATION

THIS IS A FULL TIME FACILITY

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG: CARSON CITY (3 MILES) NVARNG HEADQUARTERS COMPLEX 53,000 SF 1962

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	COMBINED SUPPORT MAINTENANCE SHOP #1	33,362 SF	3,048	1/89	12/89
214	ORGANIZATIONAL MAINTENANCE SHOP #1	7,258 SF	676	1/89	11/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

11 JAN 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CARSON CITY, NEVADA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	19			19	1,150	198	952
ACTUAL	19			19	1,017	197	820

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
UNITS SUPPORTED BY THE ORGANIZATIONAL MAINTENANCE SHOP		
150th MAINTENANCE COMPANY UIC WQCSAA TPSN 31125	146	119
HEADQUARTERS STATE AREA COMMAND (-) UIC W8AQAA TPSN 46751	145	163
106th PUBLIC AFFAIRS DETACHMENT UIC WQEDAA TPSN 34253	13	11
DECON COMPANY CHEMICAL BATTALION UIC N/A TPSN N/A	122	94

THE COMBINED SUPPORT MAINTENANCE SHOP SUPPORTS ALL NEVADA ARMY NATIONAL GUARD UNITS IN THE NORTHERN HALF OF NEVADA.

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	243	248
TRAILERS	138	139
TRACKED VEHICLES	52	36

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CARSON CITY, NEVADA		
4 PROJECT TITLE COMBINED SUPPORT AND ORGANIZATIONAL MAINTENANCE SHOPS		5 PROJECT NUMBER 320009/320019

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

EQUIPMENT SUPPORTED BY THE COMBINED SUPPORT MAINTENANCE SHOP

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
50	72	36.00
.75	51	38.25
1.00	106	106.00
1.125	26	29.25
1.250	40	50.00
TOTAL		256.50

NUMBER OF WORK BAYS

FIRST WORK BAY	256.50 - 125 = 1
ADDITIONAL WORK BAYS	131.50 / 225 = 1
TOTAL MECHANIC WORK BAYS	2
EXCEPTION TO CRITERIA BAY	1
WELDING & BODY	2
PAINT & PREPARATION	3
LUBE & INSPECTION	1
WASH & STEAM	1
SPECIAL WORK BAY	2
TOTAL WORK BAYS	12

EQUIPMENT SUPPORTED BY THE ORGANIZATIONAL MAINTENANCE SHOP

WEIGHTED VEHICLE DENSITY

WED	#	TOTAL
.50	39	19.50
.75	23	17.25
1.00	78	78.00
1.125	11	12.375
1.250	2	2.50
	153	129.625

NUMBER OF WORK BAYS

FIRST WORK BAY	129.625 - 20 = 1
ADDITIONAL WORK BAYS	109.625 / 40 = 3
TOTAL MECHANIC WORK BAYS	4
EXCEPTION TO CRITERIA BAY	1
TOTAL WORK BAYS	5

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CARSON CITY, NEVADA	4. PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP #1

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 320009	8. PROJECT COST ($000) 3,048

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				2,470
CSMS	SF	30,172	78.00	(2,353)
ARMORY ADMINISTRATION AREA	SF	690	78.00	(54)
COVERED STORAGE	SF	2,500	25.00	(63)
SUPPORTING FACILITIES				407
SITE PREPARATION	LS	-	-	(25)
SITE FINISHING AND LANDSCAPING	LS	-	-	(68)
FENCING	LF	1,900	12.00	(23)
PARKING (STABILIZED HARDSTAND)	SY	1,100	8.00	(9)
PARKING (FLEXIBLE)	SY	1,761	10.00	(17)
PARKING (RIGID)	SY	2,765	35.00	(97)
UTILITIES (WATER, ELECTRIC, SEWER)	LS	-	-	(168)
SUBTOTAL				2,877
CONTINGENCY (5%)				144
SUPERVISION, INSPECTION & OVERHEAD (1.37%)				41
FEDERAL SHARE				3,048
STATE SHARE NON ADD				(14)
TOTAL REQUEST				3,048
EQUIP PROVIDED FROM OTHER FED APPR NON ADD				(12)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a maintenance facility with 12 work bays, allied trade shops, storage areas and an administrative work area constructed of masonry, built up roof and concrete floor. Partitions to consist of masonry block. Supporting facilities will include lube and inspection rack, wash rack, outside storage, utilities, fire protection, loading ramp, fencing and site preparation. Armory Administrative Area includes offices and computer space for authorized personnel.

Air Conditioning: 18 tons

11. REQUIREMENT: 33,362 SF ADEQUATE: 0 SF SUBSTANDARD: 9,960 SF

PROJECT: A new maintenance facility to provide support maintenance to vehicles and equipment supported by this maintenance shop. (Current Mission)

REQUIREMENT: A facility requirement for 33,362 SF is requested to permit maintenance at the support levels to be performed on vehicles and equipment authorized by TOE/TDA at the supported units.

CURRENT SITUATION The existing facility contains 9,960 SF which was constructed in 1959. The facility is inadequate for efficient and cost effective support of assigned equipment because of insufficient work and allied shop bays, storage, and paint shop. Heating, lighting, and ventilation are substandard in the existing shop. Administrative and personnel support areas are also inadequate.

IMPACT IF NOT PROVIDED: The quality of work will decrease due to the deficient administrative, work and storage areas to perform administrative and maintenance activities.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CARSON CITY, NEVADA

4 PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP #1	5 PROJECT NUMBER 320009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 1/89
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 6/89
(d) Date Design Complete........................ 12/89

(2) Basis:
(a) Standard or Definitive Design - Yes X No
(b) Where Design Was Most Recently Used Montana CSMS

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(200)
(d) Contract..................................(200)
(e) In-house..................................(0)

(4) Construction Start........................ 11/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telephone Equipment	AMSCO 529895.10	91	12

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CARSON CITY, NEVADA	4. PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP #1

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 320019	8. PROJECT COST ($000) 676

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				508
ORGANIZATIONAL MAINTENANCE SHOP	SF	7,258	70.00	(508)
SUPPORTING FACILITIES				123
SITE PREPARATION	LS	-	-	(10)
LIGHTING	LS	-	-	(3)
WASH RACK	LS	-	-	(10)
PAVING (FLEXIBLE)	SY	2,889	13.80	(40)
SIDEWALKS	SY	110	30.00	(3)
UTILITIES (WATER, ELECTRIC, SEWER)	LS	-	-	(20)
FUEL DISPENSING & STORAGE	LS	-	-	(30)
GRADING, SEED, PLANTING	LS	-	-	(7)
SUBTOTAL				631
CONTINGENCY (5%)				32
SUPERVISION, INSPECTION & OVERHEAD (2%)				13
TOTAL REQUEST				676
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(1)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a specially designed facility with 5 work bays, storage areas and an administrative work area constructed of masonry block. Supporting facilities to include wash rack, utilities, fire protection, used oil storage, exterior lighting, pavement, fencing and site preparation.

Air Conditioning: 7 tons

11. REQUIREMENT: 7,258 SF ADEQUATE: 0 SF SUBSTANDARD: 3,550 SF

PROJECT: A new maintenance facility to provide organizational maintenance support to vehicles and equipment supported by this OMS. (Current mission).

REQUIREMENT: A facility requirement for 7,258 SF is requested to permit maintenance at the organizational level of support to be performed on vehicles and equipment authorized by TOE/TDA at the supported units.

CURRENT SITUATION: The existing facility contains 3,550 SF which was constructed by the City of Carson City, Nevada without Federal funds in 1983 is inadequate in work bays, storage areas, and lighting for efficient and cost effective operations. Administrative work area and restrooms are also inadequate.

IMPACT IF NOT PROVIDED: The quality of work will decrease due to the deficient administrative, work and storage areas to perform administrative and maintenance activities, result, degraded combat readiness for supported units.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

CARSON CITY, NEVADA

4 PROJECT TITLE ORGANIZATIONAL MAINTENANCE SHOP #1	5 PROJECT NUMBER 320019

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
- (a) Date Design Started.......................... 1/89
- (b) Percent Complete as of January 1990 ...... 100%
- (c) Date Design Expected to be 35% Completed.... 6/89
- (d) Date Design Complete........................11/89

(2) Basis:
- (a) Standard or Definitive Design - Yes____ No X
- (b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
- (a) Production of Plans and Specifications....(0)
- (b) All Other Design Costs....................(0)
- (c) Total...................................(70)
- (d) Contract................................(70)
- (e) In-house................................(0)

(4) Construction Start........................ 11/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telephone Equipment	AMSCO 529895.10	91	1

DD FORM 1 DEC 76 1391c

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION GUILDERLAND, NEW YORK		4 AREA CONSTR COST INDEX 1.91

5 FREQUENCY AND TYPE UTILIZATION

FACILITY IS USED FOR TRAINING 30 WEEKENDS PER YEAR FOR RIFLE FAMILIARIZATION AND QUALIFICATION, BIVOUAC, FIELD TRAINING AND CPX ACTIVITIES

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG: N/A

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	MOUT ASSAULT COURSE RANGE	LS	800	9/86	12/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

4 OCT 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
GUILDERLAND, NEW YORK

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					3,733	534	3,199
ACTUAL					3,384	574	2,810

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
VARIOUS NEW YORK ARNG UNITS	3,733	3,384

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL

N/A

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION GUILDERLAND, NEW YORK	4. PROJECT TITLE MOUT ASSAULT COURSE RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 360090	8. PROJECT COST ($000) 800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				568
VAULT AND FIGHT	LS	-	-	(30)
CLEARING TECHNIQUES BUILDING	LS	-	-	(31)
GRENADIER GUNNERY BUILDING & DODGE CITY	LS	-	-	(109)
DEFENSE TASK BUILDING & DESTINY DOORWAY	LS	-	-	(349)
UNDERGROUND TRAINER	LS	-	-	(49)
SUPPORTING FACILITIES				182
ELECTRICAL SERVICE	LF	2,000	11.00	(22)
STORM DRAINAGE	LF	1,000	26.00	(26)
COMMUNICATION	LS	-	-	(6)
PAVING, WALKS AND GUTTERS	SY	1,450	16.00	(23)
SITE IMPROVEMENTS (EARTHWORK)	CY	8,000	7.00	(56)
HARDSTAND/ACCESS/SERVICE ROAD & PARKING	SY	4,000	11.25	(45)
BLEACHERS WITH OVERHEAD COVER	SF	800	5.00	(4)
SUBTOTAL				750
CONTINGENCY (5%)				38
SUPERVISION, INSPECTION & OVERHEAD (1.50%)				12
TOTAL REQUEST				800
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(10)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Specially designed non-live fire Military Operations on Urban Terrain (MOUT) Assault Course (MAC). The MAC will utilize the Miles engagements and will consist of 7 facilities, a crushed aggregate road to accommodate 60 ton vehicles, parking area, underground sewer trainer and other supporting features required to replicate an urban setting. Observation tower and supporting utilities. Design will be in accordance with Huntsville Design Manual 1110-1-7 and Field Manual 25-7.

Air Conditioning: N/A

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: New construction of a MOUT Assault Course (MAC) to meet requirement of FM 25-7. Provide NYARNG training in tactics and techniques in an urban terrain under simulated combat conditions. (New Mission)

REQUIREMENT: This project is needed to satisfy the requirements for periodic training in Military Operations on Urbanized Terrain under current doctrine in a simulated combat setting to effectively train and accomplish combat readiness objectives.

CURRENT SITUATION: There are no existing urban facilities within a reasonable travel distance to meet training objectives on a MAC non-live fire course. NYARNG troops now travel out of state and compete with other reserve units for limited time available at active Army installations for this type training, increasing cost and reducing training time.

IMPACT IF NOT PROVIDED: If this project is not provided units will continue to train on inadequate facilities, reducing training and mission effectiveness and using valuable training time which could be better used in other areas.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION GUILDERLAND, NEW YORK		
4 PROJECT TITLE MOUT ASSAULT COURSE RANGE		5 PROJECT NUMBER 360090

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
- (a) Date Design Started.......................... 9/86
- (b) Percent Complete as of January 1990 ...... 100%
- (c) Date Design Expected to be 35% Completed....10/88
- (d) Date Design Complete.......................12/89

(2) Basis:
- (a) Standard or Definitive Design - Yes X No ___
- (b) Where Design Was Most Recently Used HNDM 1110-1-7

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
- (a) Production of Plans and Specifications....(0)
- (b) All Other Design Costs....................(0)
- (c) Total.....................................(34)
- (d) Contract..................................(34)
- (e) In-house..................................(0)

(4) Construction Start......................... 11/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
TARGET MECHANISM	OPA	91	10

1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CLINTON, NORTH CAROLINA		4 AREA CONSTR COST INDEX 1.07

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	ROSEBORO	(12 MILES)	ARMORY	11,304 SF	1971
	WARSAW	(12 MILES)	ARMORY	12,299 SF	1956
	MOUNT OLIVE	(23 MILES)	ARMORY	13,401 SF	1961

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY	32,264 SF	1,603	10/88	12/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

13 JAN 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CLINTON, NORTH CAROLINA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	16	5	11		155	39	116
ACTUAL	16	5	11		155	29	126

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS & HEADQUARTERS COMPANY (-) 30TH INFANTRY BRIGADE UIC WVA5AA TPSN 14030	155	155

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	40	45
TRAILERS	40	31

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CLINTON, NORTH CAROLINA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 370023	8. PROJECT COST ($000) 1,603

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,774
ARMORY BUILDING	SF	32,264	55.00	(1,774)
SUPPORTING FACILITIES				278
SITE PREPARATION (100% STATE)	LS	-	-	(50)
FINE GRADING, SEEDING AND PLANTING	LS	-	-	(23)
FENCING	LF	839	13.00	(11)
FLEXIBLE PAVEMENTS	SY	9,890	12.00	(119)
UTILITIES: WATER, SEWER & TELECOM	LS	-	-	(12)
RIGID PAVEMENTS, SEPARATOR AND FLAGPOLE	LS	-	-	(38)
FUEL DISPENSING SYSTEM	LS	-	-	(25)
SUBTOTAL				2,052
CONTINGENCY (5%)				102
SUPERVISION, INSPECTION & OVERHEAD (1.40%)				22
FEDERAL SHARE				1,603
STATE SHARE ... NON ADD				(573)
TOTAL REQUEST				1,603
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(15)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent type construction, brick and concrete block units, with built-up or standing seam metal roof and concrete floors. A two-story structure with mechanical and electrical equipment. Supporting facilities include wash rack, oil separator & fuel dispensing system.

Air Conditioning: 24 tons

11. REQUIREMENT: 32,264 SF ADEQUATE: 0 SF SUBSTANDARD: 15,600 SF

PROJECT: A new facility is requested to serve the peacetime mission of this unit. The space will permit all infantry personnel to perform many necessary tasks that will improve their readiness posture for completion of combat objectives. The existing armory cannot be expanded. (Current Mission)

REQUIREMENT: This facility is required to support the reorganized and increased mission of the Headquarters, Company (-Det 1,2 & 3), 30th Infantry Brigade consisting of 155 personnel. This armory will provide the necessary administration, indoor training areas and storage of equipment space to achieve the proficiency in required training and to accomplish the assigned readiness objectives. New 20-acre site is owned by the State.

CURRENT SITUATION: The present armory consists of 15,600 SF and was constructed in 1956. With the additional training requirements and support of assigned personnel, the existing areas and total space does not permit expansion. The existing armory is State-owned and will be disposed of after the new facility has been occupied, in accordance with State Laws.

IMPACT IF NOT PROVIDED: Assigned units will be required to use the overcrowded facility with a deficiency of 16,664 SF in supply and training areas. The overcrowded conditions will continue to have an adverse effect on troop morale, affecting the retention and recruiting of personnel.

95

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CLINTON, NORTH CAROLINA		
4 PROJECT TITLE ARMORY		5 PROJECT NUMBER 370023

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
- (a) Date Design Started.......................... 10/88
- (b) Percent Complete as of January 1990 ...... 100%
- (c) Date Design Expected to be 35% Completed.... 7/89
- (d) Date Design Complete........................ 12/89

(2) Basis:
- (a) Standard or Definitive Design - Yes____ No X
- (b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
- (a) Production of Plans and Specifications....(0)
- (b) All Other Design Costs....................(0)
- (c) Total.....................................(66)
- (d) Contract..................................(66)
- (e) In-house..................................(0)

(4) Construction Start.......................... 4/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	15

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1 COMPONENT ARNG	**FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION**	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION **CAMP GRAFTON, (DEVILS LAKE), NORTH DAKOTA**		4 AREA CONSTR COST INDEX 1.48

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK.

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG: NONE

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	COMBINED SUPPORT MAINTENANCE SHOP ADDITION/ALTERATION	19,251 SF	1,595	6/88	10/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

10 MAY 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
CAMP GRAFTON (DEVILS LAKE) NORTH DAKOTA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	45			45	3,872	381	3,491
ACTUAL	30			30	4,154	413	3,741

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL UNITS NORTH DAKOTA ARNG	3,872	4,154

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	1,269	965
TRACKED VEHICLES	57	35
TRAILERS	753	468

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP GRAFTON (DEVILS LAKE), NORTH DAKOTA		
4 PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP ADDITION/ALTERATION		5 PROJECT NUMBER 380011

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	217	109.00
.75	327	245.00
1.00	284	284.00
1.125	475	534.00
1.250	23	29.00
		1201.00

NUMBER OF WORK BAYS

1201.00 - 125 = 1
1076.00 / 225 = 5

TOTAL = 6 BAYS

TOTAL AUTHORIZED WORK BAYS = 6

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP GRAFTON (DEVILS LAKE), NORTH DAKOTA	4. PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 380011	8. PROJECT COST ($000) 1,595

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,251
CSMS ADDITION	SF	15,751	75.00	(1,181)
CSMS ALTERATION	SF	3,500	20.00	(70)
SUPPORTING FACILITIES				247
SITE PREPARATION	LS	-	-	(74)
SOIL STABILIZATION & PLANTING	LS	-	-	(12)
LUBE & INSPECTION RACK	LS	-	-	(20)
MILITARY VEHICLE LOADING RAMP	LS	-	-	(12)
PAVING: RIGID	SF	21,400	4.00	(86)
PAVING: FLEXIBLE	SY	300	12.00	(4)
UTILITIES	LS	-	-	(39)
SUBTOTAL				1,498
CONTINGENCY (5%)				75
SUPERVISION, INSPECTION & OVERHEAD (1.40%)				22
TOTAL REQUEST				1,595
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a maintenance facility addition/alteration which includes special purpose and other work areas built with permanent masonry type construction to match existing structure, single membrane roof and concrete floors. Interior partitions will consist of masonry block. Supporting facilities consist of a vehicle loading ramp and a lube and inspection ramp.

Air Conditioning: 5 tons

11. REQUIREMENT: 34,993 SF ADEQUATE: 15,742 SF SUBSTANDARD: 3,500 SF

PROJECT: A maintenance shop addition/alteration is required to provide support maintenance on the vehicles and equipment authorized to the supported units of the North Dakota Army National Guard. (Current Mission).

REQUIREMENT: A facility addition of 15,751 and alterations of 3,500 SF of existing shop is requested to permit direct support level maintenance to be performed on combat equipment and vehicles authorized by Table of Organization and Equipment.

CURRENT SITUATION: The existing shop contains 19,242 SF. This facility is inadequate in the following areas: supply room, carpenter shop, canvas shop, a support maintenance bay, and numerous special purpose areas to include a wash bay, welding and body shop, bead blasting bay, transmission and power pack area, warming bay, and an inspection bay.

IMPACT IF NOT PROVIDED: As equipment and personnel authorizations increase, so do the number of vehicles and items needing maintenance. Without adequate space the quality and efficiency of work cannot be increased to support the requirements. Without adequate facilities, fuel costs will increase and training time will decrease due to travel to other training areas and needed maintenance being deferred.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP GRAFTON (DEVILS LAKE), NORTH DAKOTA		
4 PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP ADDITION/ALTERATION		5 PROJECT NUMBER 380011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 6/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 1/89
(d) Date Design Complete....................... 10/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.......................................(55)
(d) Contract....................................(55)
(e) In-house....................................(0)

(4) Construction Start......................... 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)

NONE

101

DD FORM 1 DEC 76 1391c PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP RILEA, OREGON

4 AREA CONSTR COST INDEX
1.25

5 FREQUENCY AND TYPE UTILIZATION

FACILITY IS USED FOR TRAINING 28 WEEKENDS PER YEAR AND ANNUAL TRAINING 12 WEEKS PER YEAR. FACILITY IS UTILIZED BY STATE OCS AS WELL AS THE BASIC AND ADVANCED NCO SCHOOLS

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

USCG: ASTORIA (5 MILES)
USAR: CAMP RILEA

7 PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	AUTOMATED RECORD FIRE (RETS) RANGE	LS	913	2/88	10/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

14 NOV 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
CAMP RILEA, OREGON

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					7,910	708	7,202
ACTUAL					7,503	653	6,850

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL UNITS OREGON ARNG	7,910	7,503
ALL UNITS OREGON ANG		

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP RILEA, (WARRENTON) OREGON	4. PROJECT TITLE AUTOMATED RECORD FIRE (RETS) RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 410015	8. PROJECT COST ($000) 913

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY................................				597
AUTOMATED RECORD FIRE RANGE (RETS)..........	LS	-	-	(597)
SUPPORTING FACILITIES..........................				258
SITE PREP/CLEAR, GRUB, EROSION CONTROL......	LS	-	-	(103)
CONTROL TOWER................................	SF	120	200.00	(24)
TARGET STORAGE/REPAIR BUILDING..............	SF	800	45.0	(36)
AMMO BREAKDOWN POINT.........................	SF	120	45.0	(5)
LATRINE.......................................	SF	192	78.00	(15)
COVERED MESS SHELTER.........................	SF	800	20.00	(16)
BREAK AREA/CONCURRENT TRAINING AREA..........	SF	200	45.00	(9)
FLAGPOLE......................................	LS	-	-	(2)
PARKING AREA/ACCESS ROADS....................	SY	2,049	6.00	(12)
RANGE LIGHTING/PA SYSTEM.....................	LS	-	-	(20)
UTILITIES: ELECTRIC & WATER..................	LS	-	-	(16)
SUBTOTAL.......................................				855
CONTINGENCY (5%)...............................				43
SUPERVISION, INSPECTION & OVERHEAD (1.47%)....				15
TOTAL REQUEST..................................				913
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(250)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
The construction of a 16 lane Automated Record Fire (ARF) Remoted Target System (RETS) range with the following supporting facilities: control tower, target storage and repair building, ammo breakdown point, latrine, mess pavilion, break/concurrent training area, and utilities as required.

Air Conditioning: None

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: A 16 lane Automated Record Fire Range for qualification and practice engaging targets in a simulated combat environment. (Current Mission).

REQUIREMENT: This range is required for all units of the Oregon Army National Guard (ORARNG) to accomplish necessary weapons training and qualification during Inactive Duty Training and Annual Training periods.

CURRENT SITUATION: There are no M-16 Automated Record Fire ranges in the State. Individual rifle qualification is being done on 200 and 300 meter known distance ranges. These ranges do not provide the realism in training required to meet training objectives. The nearest facility of the proposed type is Fort Lewis, WA., 135 miles from the nearest ORARNG unit.

IMPACT IF NOT PROVIDED: If not provided units will continue to train on inadequate ranges. The weapons training requirements will be delayed and may increase time and resource requirements. Individual/unit readiness will be decreased.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

CAMP RILEA, OREGON

4 PROJECT TITLE AUTOMATED RECORD FIRE (RETS) RANGE	5 PROJECT NUMBER 410015

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 2/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 2/89
(d) Date Design Complete........................10/89

(2) Basis:
(a) Standard or Definitive Design - Yes X No
(b) Where Design Was Most Recently Used HNDM 1110-1-5

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(40)
(d) Contract..................................(40)
(e) In-house..................................(0)

(4) Construction Start........................ 4/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Remoted Target System	OPA	91	250

106

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT
ARNG

FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION

2 DATE
31 JAN 90

3 INSTALLATION AND LOCATION
REDMOND, OREGON

4 AREA CONSTR COST INDEX
1.25

5 FREQUENCY AND TYPE UTILIZATION
FACILITY IS USED FOR TRAINING 48 WEEKENDS PER YEAR

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	REDMOND	(4 MILES)	ARMORY	12,427 SF	1955
	BEND	(16 MILES)	ARMORY	13,824 SF	1950
USA:	REDMOND	(3 MILES)	NIGHT VISION TEST FACILITY		1985
	REDMOND	(20 MILES)	NIGHT VISION EVALUATION FACILITY		1985

7 PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	BAFFLED 50 METER RANGE	LS	971	1/89	2/90

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.
15 NOV 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE
0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 128/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
REDMOND, OREGON

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					1,002	48	954
ACTUAL					897	45	852

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
3RD SQUADRON 116TH ARMORED CAVALRY REGIMENT UIC WQU1AA TPSN 1811607	1,002	897

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION REDMOND, OREGON	4. PROJECT TITLE BAFFLED 50 METER RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 410037	8. PROJECT COST ($000) 971

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY..............................				604
BASIC 50M FIRING RANGE W/BAFFLES............	LS	-	-	(604)
SUPPORTING FACILITIES.........................				308
SITE PREPARATION, GRADING, SEEDING, PLANTING	LS	-	-	(9)
EARTH BERMS.................................	CY	11,967	9.02	(108)
TARGET STORAGE/REPAIR BUILDING..............	SF	840	45.95	(39)
AMMO BREAKDOWN POINT........................	SF	111	183.78	(20)
LATRINE.....................................	SF	164	267.68	(44)
BREAK AREA/CONCURRENT TRAINING..............	SF	493	41.32	(20)
FLAGPOLE....................................	LS	-	-	(2)
PARKING AREA/ACCESS ROADS...................	SY	2,245	5.84	(13)
COMMUNICATIONS SYSTEM.......................	LS	-	-	(6)
SECURITY FENCE..............................	LF	1,875	15.29	(29)
UTILITIES: WATER, SEWER, ELECT..............	LS	-	-	(18)
SUBTOTAL......................................				912
CONTINGENCY (5%)..............................				45
SUPERVISION, INSPECTION & OVERHEAD (1.47%)....				14
TOTAL REQUEST.................................				971
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(2,595)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a fully baffled 39 lane 50 meter range with additional target lines. Primary facilities include a covered firing line, side walls, overhead baffles, impact berm, electronically operated turning targets, latrine, target storage/repair building, and break/concurrent training area. Support facilities include utilities, communications system, flagpole, parking area, access roads, security fencing, and site improvements.

Air Conditioning: NA

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: A 39 lane, fully baffled, basic 50 meter range for M-16 rifle qualification, firing with protective mask, night firing, rapid semiautomatic firing, first phase firing, pistol practice, qualification, and quick fire. (Current mission).

REQUIREMENT: The project is required to provide National Guard units the proper facilities to accomplish necessary weapons training and qualification during inactive duty training and annual training periods to satisfy readiness requirements. Baffling is required to constrain the line of fire and safety zone within a controlled space.

CURRENT SITUATION: The nearest approved ranges for weapons qualification are at Camp Withycombe (134 miles distant) and Camp Adair (136 miles distant). Units from the entire 3rd Squadron 116th ACR use the adjacent training area and would benefit from this project. Use increased when the Department of the Army directed Armored Cavalry Regiment reorganization became effective in FY 89 and the combined Armor and mechanized unit strength in eastern Oregon grew.

IMPACT IF NOT PROVIDED: Units will continue to be without adequate ranges for training and qualification. The weapons training requirements will be delayed and may increase time and resource requirements.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

REDMOND, OREGON

4 PROJECT TITLE BAFFLED 50 METER RANGE	5 PROJECT NUMBER 410037

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 1/89
(b) Percent Complete as of January 1990 ...... 85%
(c) Date Design Expected to be 35% Completed.... 10/89
(d) Date Design Complete....................... 2/90

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(65)
(d) Contract..................................(65)
(e) In-house..................................(0)

(4) Construction Start.......................... 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Training Devices	OPA	91	2,592
J-SIIDS	AMSCO 5212.000	91	3

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP SANTIAGO (SALINAS), PUERTO RICO	4. AREA CONSTR COST INDEX 1.26

5. FREQUENCY AND TYPE UTILIZATION

FACILITY IS USED FOR TRAINING 48 WEEKENDS PER YEAR AND ANNUAL TRAINING 8 WEEKS PER YEAR

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	PONCE	(25 MILES)	ARMORY 10,843 SF 1961
	FORT ALLEN	(20 MILES)	TRAINING SITE
USAR:	PONCE	(25 MILES)	

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	MODIFIED RECORD FIRE (RETS) RANGE	LS	1,000	8/87	5/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

6 DEC 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
CAMP SANTIAGO (SALINAS), PUERTO RICO

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					9,226	901	8,325
ACTUAL					9,657	777	8,880

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH, AUTHORIZED	STRENGTH, ACTUAL
ALL PUERTO RICO ARNG UNITS	9,226	9,657

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP SANTIAGO (SALINAS) PUERTO RICO	4. PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 430006	8. PROJECT COST ($000) 1,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				557
MODIFIED RECORD FIRE RANGE.(RETS)	LS	-	-	(557)
SUPPORTING FACILITIES				381
RANGE TARGET/STORAGE BUILDING	SF	800	30.00	(24)
LATRINES	SF	800	30.00	(24)
AMMO-BREAKDOWN	SF	400	30.00	(12)
BLEACHER ENCLOSURE	SF	600	20.00	(12)
RANGE LIGHTING/FLAGPOLE/PA SYSTEM	LS	-	-	(74)
ELECTRICAL SERVICE	LS	-	-	(80)
STORM DRAINAGE	LS	-	-	(60)
COMMUNICATIONS	LS	-	-	(30)
MILITARY VEHICLE PARKING	SY	600	8.00	(5)
SITE PREPARATION	LS	-	-	(60)
SUBTOTAL				938
CONTINGENCY (5%)				47
SUPERVISION, INSPECTION & OVERHEAD (1.47%)				15
TOTAL REQUEST				1,000
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(239)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a permanent, standard design modified record fire (RETS) rifle marksmanship range consisting of sixteen lanes and range support facilities. This range will be designed and constructed so that it can be upgraded to a full defense test range in the future with minimum cost and effort. This project will be designed using guidance contained in HNDM-1110-1-5 & FM 25-7. Range support facilities will include a control tower, latrine (male/female), range target/storage building, ammo breakdown bleacher building and military parking. Power and data cables will be installed for the Remoted Target System (RETS) equipment to be utilized on this range. This range will be located on the present site of the train fire range which requires the demolition of existing wooden structures and target emplacement. This project will be designed and constructed in accordance with current energy conservation policies and regulations.

Air Conditioning: 2 Tons

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: This project will provide a modified record fire range for basic M-16 rifle marksmanship training and qualification. (Current mission).

REQUIREMENT: This project is required to provide improved and new training facilities for the National Guard Units that train at the training site to meet the needs for training and improving the combat readiness of the soldiers. RETS provides a means of evaluating the individual soldier's ability to correctly engage multiple targets in a time constrained training environment.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP SANTIAGO (SALINAS), PUERTO RICO

4 PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE	5 PROJECT NUMBER 430006

11. REQUIREMENT (Continued)

CURRENT SITUATION: Basic rifle marksmanship training is being conducted on inadequate, obsolete Korean War Vintage record fire ranges. The current ranges are time consuming, inefficient and maintenance intensive. Target mechanism downtime reduces the time available to the drill sergeant and range trainers to reinforce marksmanship training. The location of the existing range will be utilized to construct this facility.

IMPACT IF NOT PROVIDED: If this project is not approved, inadequate and antiquated record fire ranges must continue to be utilized, resulting in a significant lost of training time, lower quality training, extensive maintenance problems, and decreased unit readiness.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP SANTIAGO (SALINAS), PUERTO RICO

4 PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE	5 PROJECT NUMBER 430006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 8/87
(b) Percent Complete as of January 1990 ...... 65%
(c) Date Design Expected to be 35% Completed.... 8/89
(d) Date Design Complete....................... 5/90

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used HNDM 1110-1-5

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(35)
(d) Contract..................................(35)
(e) In-house..................................(0)

(4) Construction Start........................ 2/91
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
RETS TARGETRY	OPA	91	239

115

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED.

PAGE NO

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION MITCHELL, SOUTH DAKOTA		4. AREA CONSTR COST INDEX 1.41

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	**PARKSTON**	**(23 MILES)**	**ARMORY**	**17,571 SF**	**1978**
	TRIPP	**(33 MILES)**	**ARMORY**	**3,375 SF**	**1936**
	WOONSOCKET	**(37 MILES)**	**ARMORY**	**13,704 SF**	**1978**

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY ADDITION/ ALTERATION	37,833 SF	954	3/88	9/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

13 JUL 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
MITCHELL, SOUTH DAKOTA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	11		11		260	16	244
ACTUAL	10		10		254	16	238

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
147TH ARMY BAND UIC WQKSAA TPSN 50420	41	37
665TH MAINTENANCE COMPANY UIC WQD2AA TPSN 31125	123	122
BATTERY A, 1ST BATTALION 147TH FIELD ARTILLERY UIC WP4BA0 TPSN 21864	96	95
TOTAL	260	254

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	99	92
OVERSIZED OR TRACKED VEHICLES	9	9

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION MITCHELL, SOUTH DAKOTA	4. PROJECT TITLE ARMORY ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 460003	8. PROJECT COST ($000) 954

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY..............................				1,141
ARMORY ADDITION..............................	SF	17,883	56.00	(1,001)
ARMORY ALTERATION............................	SF	19,950	7.00	(140)
SUPPORTING FACILITIES.........................				61
SITE PREPARATION (100% STATE)................	LS	-	-	(6)
FINE GRADING, SEEDING & PLANTING............	LS	-	-	(15)
PARKING: OFF-STREET & ACCESS................	SY	8,316	4.50	(37)
UTILITIES: WATER, SEWER & ELECTRICAL........	LS	-	-	(2)
SIDEWALK.....................................	SF	800	1.25	(1)
SUBTOTAL.....................................				1,202
CONTINGENCY (5%).............................				60
SUPERVISION, INSPECTION & OVERHEAD (1.42%)....				18
FEDERAL SHARE.............................				954
STATE SHARE.........................NON ADD				(326)
TOTAL REQUEST................................				954
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(18)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Project consists of addition/alteration of permanent masonry type construction with face brick to match surrounding facilities. Face brick is necessary so there will be no significant impact on the aesthetics of this general area. Armory will include all utilities and other supporting items.

Air Conditioning: 13 tons

11. REQUIREMENT: 37,833 SF ADEQUATE: 0 SF SUBSTANDARD: 19,950 SF

PROJECT: Addition and alteration to existing facility located on land which is titled to the State of South Dakota. (Current Mission)

REQUIREMENT: This facility originally housed the 665th Maintenance Company and Battery A/147th as a 200 person armory. Since that time a reorganization took place increasing the authorized strength of the 665th Maintenance Company to 123 and Battery A/147th to 96. The 147th Army Band was later added which increased usage and personnel. Today these units have an authorized strength of 260 requiring a facility with space to properly train.

CURRENT SITUATION: The existing facility was constructed in 1959 by the State. With three units now occupying this facility it does not have adequate storage or other training facilities that are required by these units. It is located 3 miles west of Mitchell on 30 acres, State owned site. The State will retain control of the facility.

IMPACT IF NOT PROVIDED: With this amount of usage and overcrowding conditions it is nearly impossible to train or retain personnel. It is difficult to provide adequate training support with limited and overcrowded space and does not provide adequate room for the specialty type of training each of the three units require.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
MITCHELL, SOUTH DAKOTA

4 PROJECT TITLE ARMORY ADDITION/ALTERATION	5 PROJECT NUMBER 460003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 3/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 1/89
(d) Date Design Complete........................ 9/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total....................................(40)
(d) Contract.................................(40)
(e) In-house.................................(0)

(4) Construction Start........................ 3/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	15
J-SIIDS	AMSCO 5212.000	91	3

120

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION WINCHESTER, TENNESSEE		4. AREA CONSTR COST INDEX 1.33

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO-DAY TRAINING ASSEMBLY PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	TULLAHOMA	(18 MILES)	ARMORY	14,410 SF	1954
	SOUTH PITTSBURGH	(35 MILES)	ARMORY	10,661 SF	1962
	FAYETTEVILLE	(33 MILES)	ARMORY	12,305 SF	1954

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS	
				START	COMPLETE
171	ARMORY	26,156 SF	1,023	12/84	10/86

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

9 MAY 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
WINCHESTER, TENNESSEE

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	7	2	5		120	18	102
ACTUAL	7	2	5		131	15	116

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
HEADQUARTERS BATTERY, 1-115TH FIELD ARTILLERY UIC WPBJT0 TPSN 21862	120	131

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	26	26
TRAILERS	14	14

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION WINCHESTER, TENNESSEE	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 470027	8. PROJECT COST ($000) 1,023

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,187
ARMORY BUILDING	SF	23,636	48.00	(1,137)
UNHEATED METAL STORAGE BUILDING	SF	2,520	20.00	(50)
SUPPORTING FACILITIES				121
SITE PREPARATION (100% STATE)	LS	-	-	(25)
FINE GRADING, SEEDING AND PLANTING	LS	-	-	(13)
PARKING: OFF-STREET, MILITARY & ACCESS	SY	4,448	10.00	(45)
FENCING	LF	570	11.00	(6)
FLAGPOLE & RIGID PAVING	LS	-	-	(6)
UTILITIES: WATER, SEWER, ELECTRICAL	LS	-	-	(26)
SUBTOTAL				1,308
CONTINGENCY (5%)				65
SUPERVISION, INSPECTION & OVERHEAD (1.45%)				13
FEDERAL SHARE				1,023
STATE SHARE ... NON ADD				(363)
TOTAL REQUEST				1,023
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(48)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A specially designed armory facility of permanent masonry type construction brick and concrete block units, with a built-up roof and concrete floors. A one-story structure with mechanical and electrical equipment. A metal storage building for units equipment.

Air Conditioning - 17 tons

11. REQUIREMENT: 26,156 SF ADEQUATE: 0 SF SUBSTANDARD: 8,711 SF

PROJECT: A new facility is requested to serve the peacetime mission of this unit. The space will permit all personnel to perform the necessary tasks that will improve their readiness posture for support in combat objectives. The existing armory cannot be expanded. (Current Mission)

REQUIREMENT: This facility is required to house Headquarters Battery, 1-115TH Field Artillery consisting of 120 personnel. This armory will provide the necessary administration, indoor training areas and storage of equipment space to achieve the proficiency in required training and to accomplish the assigned readiness objectives. A new 20 acre site is owned by the State.

CURRENT SITUATION: The present armory consists of 8,711 SF and was constructed in 1956. With the additional training and personnel requirements and new equipment needs, the existing areas and total space does not permit expansion. The existing armory is State owned and will be disposed of after the new facility has been completed, in accordance with State laws.

IMPACT IF NOT PROVIDED: Assigned unit will be required to use overcrowded facilities with a deficiency of 17,445 SF in supply and training areas. The overcrowded conditions will continue to have an adverse effect on troop morale, affecting the retention and recruiting of personnel.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

WINCHESTER, TENNESSEE

4 PROJECT TITLE ARMORY	5 PROJECT NUMBER 470027

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................12/84
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 9/85
(d) Date Design Complete.......................10/86

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(44)
(d) Contract..................................(0)
(e) In-house..................................(44)

(4) Construction Start........................ 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	20
J-SIIDS	AMSCO 5212.000	91	10
Telecommunications	AMSCO 529895.10	91	18

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION CAMP MAXEY, TEXAS		4. AREA CONSTR COST INDEX 1.26

5. FREQUENCY AND TYPE UTILIZATION

FACILITY IS USED FOR TRAINING 48 WEEKENDS PER YEAR

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	POWDERLY	(1 MILE)	ARMORY	15,275 SF	1977
USAR:	PARIS	(12 MILES)	ARMORY	7,000 SF	1976

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	MODIFIED RECORD FIRE (RETS) RANGE	LS	1,000	5/87	3/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

02 OCT 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 128/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP MAXEY, TEXAS

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					21,754	2,218	19,536
ACTUAL					21,703	2,089	19,614

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL TEXAS ARNG UNITS	21,754	21,703

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL

N/A

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP MAXEY, TEXAS	4. PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 480049	8. PROJECT COST ($000) 1,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				662
MODIFIED RECORD FIRE (RETS) RANGE	LS	-	-	(662)
SUPPORTING FACILITIES				276
CONTROL TOWER (STEEL)	SF	120	300	(36)
AMMO/BREAKDOWN STORAGE BLDG	SF	620	30	(19)
LATRINE	SF	192	100	(19)
SITE PREPARATION	LS	-	-	(147)
MILITARY PARKING & ACCESS ROAD	LS	-	-	(5)
UTILITIES	LS	-	-	(50)
SUBTOTAL				938
CONTINGENCY (5%)				47
SUPERVISION, INSPECTION & OVERHEAD (1.47%)				15
TOTAL REQUEST				1,000
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(764)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project consists of a standard 16 lane Remoted Target System (RETS) Modified Record Fire Range with additional provisions to support defense training. Supporting facilities include: control tower, utility bldg., M/F latrine, and other utilities as required. Design will be in accordance with FM 25-7 and HNDM-1110-1-5, "Design information for Infantry Rifle Marksmanship Ranges".

Air Conditioning: none

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: A 16 lane MRF with supporting facilities and designed for individual weapons proficiency and qualification. (New Mission).

REQUIREMENT: This range is required for all units of the Texas National Guard to accomplish necessary weapons training, and qualification requirement during Initial Duty Training. It will provide adequate training for firing at targets comparable to battlefield conditions and develop speed and accuracy in target engagement.

CURRENT SITUATION: No record fire ranges are located at this training site to support this requirement. Individual rifle qualification is being done on 1000 inch zero ranges which do not provide the realism required to meet training objectives.

IMPACT IF NOT PROVIDED: If not provided, the individual weapons training objective will be delayed. Thus, overall unit and individual readiness will continued to be adversely affected.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION CAMP MAXEY, TEXAS		
4 PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE		5 PROJECT NUMBER 480049

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 5/87
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 8/88
(d) Date Design Complete........................ 3/89

(2) Basis:
(a) Standard or Definitive Design - Yes X No___
(b) Where Design Was Most Recently Used HNDM 1110-1-5

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(38)
(d) Contract..................................(38)
(e) In-house..................................(0)

(4) Construction Start........................ 10/90 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
RETS TARGETRY	OPA	91	764

1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION EL PASO, TEXAS		4. AREA CONSTR COST INDEX 1.18

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY TWO TO THREE TIMES PER MONTH

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARMY:	FORT BLISS	(5 MILES)
USMCR:	EL PASO	(5 MILES)
USAR:	EL PASO	(4 MILES)

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY ADDITION/ ALTERATION	36,483 SF	2,027	7/88	10/89

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

27 OCT 89
(Date)

9 LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 [illegible]

1. COMPONENT ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
EL PASO, TEXAS

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	50	4	41	5	616	56	560
ACTUAL	34	4	25	5	512	38	474

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
HEADQUARTERS & HEADQUARTERS BATTERY 3-133 FIELD ARTILLERY UIC WPM2T0 TPSN 02049	235	177
BATTERY A, 3-133 FIELD ARTILLERY UIC WPM2A0 TPSN 02049	82	65
BATTERY B, 3-133 FIELD ARTILLERY UIC WPM2B0 TPSN 02049	82	64
BATTERY C, 3-133 FIELD ARTILLERY UIC WPM2C0 TPSN 02049	82	71
SERVICE BATTERY, 3-133 FIELD ARTILLERY UIC WPM2S0 TPSN 02049	135	135
TOTAL	616	512

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	111	107
TRAILERS	74	17
TRACKED VEHICLES	17	17

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION EL PASO, TEXAS	4. PROJECT TITLE ARMORY ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 480001	8. PROJECT COST ($000) 2,027

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,567
ARMORY ADDITION	SF	23,582	50.00	(1,179)
ARMORY ALTERATION	SF	12,763	30.00	(383)
FLAMMABLE MATERIALS BUILDING	SF	138	35.00	(5)
SUPPORTING FACILITIES				337
SITE PREPARATION	LS	-	-	(24)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(10)
FENCING	LF	680	12.50	(9)
PARKING: MILITARY, OFF-STREET & ACCESS	SY	21,822	12.50	(272)
SIDEWALKS	SF	600	2.50	(2)
UTILITIES: WATER, SEWER, GAS & ELECTRIC	LS	-	-	(20)
SUBTOTAL				1,904
CONTINGENCY (5%)				95
SUPERVISION, INSPECTION & OVERHEAD (1.40%)				28
TOTAL REQUEST				2,027
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(36)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a total renovation to the existing armory facility plus a permanent masonry addition of brick and concrete masonry units with concrete floors. The addition will match the existing construction. Supporting facilities will include additional off-street and military vehicle parking and fencing.

Air Conditioning - 15 tons

11. REQUIREMENT: 49,646 SF ADEQUATE: 13,163 SF SUBSTANDARD: 12,763 SF

PROJECT: Renovation of 12,763 SF of existing substandard armory space, plus the addition of 23,582 SF of permanent masonry construction to the armory building. Additional military and off-street parking will also be provided. (New Mission)

REQUIREMENT: This construction is required to provide adequate facilities to house units of the 49th Armored Division. This project will provide the necessary classrooms, storage and administration areas to adequately support these reorganized and relocated units.

CURRENT SITUATION: The present armory was constructed in 1972 and is structurally sound and can be cost effectively renovated and expanded. The existing building is inadequate in total space and functional areas required for the assigned units.

IMPACT IF NOT PROVIDED: The units will continue to do as well as possible under the adverse, overcrowded situation, but the ability of these units to meet their readiness objectives will be adversely affected.

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

EL PASO, TEXAS

4 PROJECT TITLE ARMORY ADDITION/ALTERATION	5 PROJECT NUMBER 480001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
    (a) Date Design Started........................ 7/88
    (b) Percent Complete as of January1990 ...... 100%
    (c) Date Design Expected to be 35% Completed.... 4/89
    (d) Date Design Complete.......................10/89

(2) Basis:
    (a) Standard or Definitive Design - Yes____ No X
    (b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
    (a) Production of Plans and Specifications....(0)
    (b) All Other Design Costs....................(0)
    (c) Total.....................................(71)
    (d) Contract..................................(71)
    (e) In-house...................................(0)

(4) Construction Start......................... 5/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
KITCHEN EQUIPMENT	AMSCO 522811.00	91	8
J-SIDDS	AMSCO 5212.000	91	20
TELECOMMUNICATIONS	AMSCO 529895.10	91	8

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION FORT WORTH, TEXAS		4. AREA CONSTR COST INDEX 1.18

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK. THIS IS A FULL-TIME FACILITY.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	FORT WORTH	(1 MILE)	ARMORY	20,182 SF	1954
	FORT WORTH	(9 MILES)	ARMORY	26,979 SF	1956
	FORT WORTH	(10 MILES)	ARMORY	31,772 SF	1957
USAF:	FORT WORTH	(2 MILES)	CARSWELL AIR FORCE BASE		

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
214	COMBINED SUPPORT MAINTENANCE SHOP	49,272 SF	3,439	2/88	12/88

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

27 OCT 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
FORT WORTH, TEXAS

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	82				21,754	2,218	19,536
ACTUAL	82				21,703	2,089	19,614

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
ALL UNITS TEXAS ARNG	21,754	21,703

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	1,888	1,626
TRAILERS	1,067	771
TRACKED VEHICLES	549	357

(CONTINUED)

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1 COMPONENT
ARNG

FY 19 91 MILITARY CONSTRUCTION PROJECT DATA

2 DATE
31 JAN 90

3 INSTALLATION AND LOCATION
FORT WORTH, TEXAS

4 PROJECT TITLE
COMBINED SUPPORT MAINTENANCE SHOP

5 PROJECT NUMBER
480032

13. MAJOR EQUIPMENT AND AIRCRAFT (Continued)

WHEELED EQUIPMENT DENSITY

WED	#	TOTAL
.50	375	187.50
.75	449	336.75
1.00	929	929.00
1.125	486	546.75
1.25	198	247.50
TOTAL		2,247.50

NUMBER OF WORK BAYS

2,247.50 - 125 = 1
2,122.50 / 225 = 10
TRAILER/GENERATOR BAY = 1
TOTAL = 12

LUBRICATION WORK BAY	1
WELDING & BODY SHOP	2
WASH & STEAM BAY	1
PAINT & PREP BAY	2
TRANS & POWER PACK BAY	1
TIRE INSPECT & SELECTION	1
TOTAL	20 WORK BAYS

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION FORT WORTH, TEXAS	4. PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 214	7. PROJECT NUMBER 480032	8. PROJECT COST ($000) 3,439

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				2,700
COMBINED SUPPORT MAINTENANCE SHOP	SF	48,612	55.00	(2,674)
FLAMMABLE MATERIALS BUILDING	SF	660	40.00	(26)
SUPPORTING FACILITIES				531
SITE PREP, GRADING, SEEDING, PLANTING	LS	-	-	(84)
LUBE & INSPECTION RACK	LS	-	-	(28)
FENCING	LF	2,281	12.00	(29)
SIDEWALKS	LS	-	-	(6)
FUEL DISPENSING SYSTEMS	LS	-	-	(20)
PAVING: RIGID	SF	5,780	27.00	(156)
PAVING: FLEXIBLE	SY	3,635	12.50	(45)
PAVING: HARDSTAND	SY	10,085	8.00	(81)
UTILITIES	LS	-	-	(82)
SUBTOTAL				3,231
CONTINGENCY (5%)				162
SUPERVISION, INSPECTION & OVERHEAD (1.37%)				46
TOTAL REQUEST				3,439
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(16)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Consists of a maintenance facility with 20 support bays, plus an administrative work area constructed of masonry, built-up roof, and concrete floor. Partitions to consist of masonry block. Supporting facilities consist of a vehicle loading ramp and a lube and inspection ramp, paving, and fuel dispensing system.

Air Conditioning: 20 tons

11. REQUIREMENT: 49,272 SF ADEQUATE: 0 SF SUBSTANDARD: 28,829 SF

PROJECT: A new maintenance shop to provide support maintenance on the vehicles and equipment authorized to the supported units of the Texas Army National Guard. (Current Mission).

REQUIREMENT: A 49,272 SF facility is requested to permit general support level maintenance to be performed on the new combat and combat support vehicles now authorized by Table of Organization and Equipment of the supported units.

CURRENT SITUATION: The existing shop contains 28,829 SF. This facility is inadequate in the following areas: support maintenance bay, administrative, mechanical, work shops and other special purpose work space. The shop does not have an approved system to control waste water from the cleaning of equipment and vehicles. The heating, lighting and ventilation are inadequate.

IMPACT IF NOT PROVIDED: As equipment and personnel authorizations increase, the number of vehicles and items needing maintenance also increase. Without adequate space the quality and efficiency of work cannot be increased to support the requirements. Without adequate facilities at this location fuel costs will increase and training time will decrease due to travel to other training areas and needed maintenance being deferred due to inadequate facilities.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1 COMPONENT ARNG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION FORT WORTH, TEXAS		
4 PROJECT TITLE COMBINED SUPPORT MAINTENANCE SHOP		5 PROJECT NUMBER 480032

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 2/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 8/88
(d) Date Design Complete......................12/88

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(50)
(d) Contract..................................(50)
(e) In-house..................................(0)

(4) Construction Start........................ 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Telecommunications	AMSCO 529895.10	91	8
J-SIIDS	AMSCO 5212.000	91	8

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP W.G. WILLIAMS, UTAH	4. AREA CONSTR COST INDEX 1.46

5. FREQUENCY AND TYPE UTILIZATION

FACILITY IS USED FOR TRAINING 45 WEEKENDS PER YEAR AND ANNUAL TRAINING 16 WEEKS PER YEAR. FACILITY IS UTILIZED DAILY BY NATIONAL GUARD, ARMY RESERVE AND ACTIVE COMPONENT UNITS AND IS A YEAR-ROUND TRAINING SITE

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	LEHI	(7 MILES)	ARMORY	14,386 SF	1958
	AMERICAN FORK	(13 MILES)	ARMORY	21,458 SF	1956
	WEST JORDAN	(11 MILES)	ARMORY	14,822 SF	1977
	MURRAY	(16 MILES)	ARMORY	19,727 SF	1955
	WEST JORDAN	(11 MILES)	AVIATION FACILITY	36,194 SF	1977

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
179	MODIFIED RECORD FIRE (RETS) RANGE	LS	1,070	9/88	12/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

7 JUN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP W.G. WILLIAMS, UTAH

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE					5,854	915	4,939
ACTUAL					6,330	877	5,453

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
ALL UNITS UTAH ARNG	5,854	6,330

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
N/A		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

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DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP W. G. WILLIAMS, UTAH	4. PROJECT TITLE MODIFIED RECORD FIRE (RETS) RANGE

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 490039	8. PROJECT COST ($000) 1,070

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY..............................				777
MODIFIED RECORD FIRE RANGE..................	LS	-	-	(777)
SUPPORTING FACILITIES.........................				228
SITE PREPARATION............................	LS	-	-	(38)
FINE GRADING AND SEEDING....................	AC	40	400.00	(16)
CONTROL TOWER...............................	SF	100	370.00	(37)
TARGET STORAGE/REPAIR BLDG..................	SF	800	40.00	(32)
AMMO BREAKDOWN BUILDING......................	SF	120	50.00	(6)
COVERED MESS................................	SF	800	20.00	(16)
ACCESS ROAD/PARKING.........................	SY	2,000	6.00	(12)
LATRINES....................................	LS	-	-	(20)
LIGHTING FOR NIGHT FIRING...................	LS	-	-	(20)
UTILITY SYSTEM, FLAGPOLE....................	LS	-	-	(31)
SUBTOTAL.				1,005
CONTINGENCY (5%)..............................				50
SUPERVISION, INSPECTION & OVERHEAD (1.45%)....				15
TOTAL REQUEST.................................				1,070
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(1,500)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

New construction of a 16 lane Modified Record Fire Range with Remoted Target System (RETS) and include control tower, target storage/repair building, ammo breakdown building, access road and parking, covered mess, and utilities. Design will be in accordance with FM 25-7 and Huntsville Design Manual 1110-1-5 for supporting facilities.

Air Conditioning: none

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: New range to supplement existing range at Camp Williams. (Current Mission).

REQUIREMENT: This new type of range is needed to support the Utah National Guard and Region V, NCO Academy that presently train at the Camp Williams Reservation.

CURRENT SITUATION: The existing ranges currently in operation are: the pistol range, M-16 known distance range, hand grenade range, and demolition range. The M-60 transition range is in place, but needs minor repair and renovation before it can be used.

IMPACT IF NOT PROVIDED: Camp Williams provides the only area within a 50 mile radius that could support this range. If not provided, units would have to travel over 500 miles to train on this type of range, and an adverse range situation would exist if not provided. Units required to fire on this range would not be able to weapons qualify and, therefore, not meet readiness objectives.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION

CAMP W.G. WILLIAMS, UTAH

4 PROJECT TITLE MODIFIED RECORD FIRE RANGE	5 PROJECT NUMBER 490039

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 9/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 4/89
(d) Date Design Complete........................12/89

(2) Basis:
(a) Standard or Definitive Design - Yes X No ___
(b) Where Design Was Most Recently Used HNDM 1110-1-5

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(45)
(d) Contract..................................(45)
(e) In-house..................................(0)

(4) Construction Start......................... 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Target Mechanism	OPA	91	1,500

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90
3. INSTALLATION AND LOCATION LOGAN, UTAH		4. AREA CONSTR COST INDEX 1.46

5. FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH TWO 2-DAY TRAINING ASSEMBLIES PER MONTH

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	SMITHFIELD	(10 MILES)	ARMORY/OMS	13,366 SF	1958/1948
	OGDEN	(46 MILES)	ARMORY/OMS	35,574/3,660 SF	1959/1985
USAR:	LOGAN	(5 MILES)	ARMORY/OMS	11,500/4,550 SF	1981/1981

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	ARMORY ADDITION/ ALTERATION	26,328 SF	788	8/88	6/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

7 JUN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 130/215

1. COMPONENT		2. DATE
ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	31 JAN 90

3. INSTALLATION AND LOCATION
LOGAN, UTAH

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	5		5		148	28	120
ACTUAL	3		3		156	20	136

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
SERVICE BATTERY 1-145TH FIELD ARTILLERY UIC WP4AS0 TPSN 21843	76	80
COMPANY C, 141ST MILITARY INTELLIGENCE BATTALION UIC WYH6C0 TPSN 33412	72	76
TOTAL	148	156

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	38	34
TRAILERS	12	19
TRACKED VEHICLES	3	3

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION LOGAN, UTAH	4. PROJECT TITLE ARMORY ADDITION/ALTERATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 490038	8. PROJECT COST ($000) 788

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				913
ARMORY ADDITION	SF	12,329	57.00	(703)
ARMORY ALTERATION	SF	13,999	15.00	(210)
SUPPORTING FACILITIES				88
SITE PREPARATION (100% STATE)	LS	-	-	(20)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(9)
CONCRETE SIDEWALK & PADS	SF	1,500	3.40	(5)
PARKING	SY	3,911	10.00	(39)
FENCING	LF	404	12.00	(5)
UTILITIES	LS	-	-	(10)
SUBTOTAL				1,001
CONTINGENCY (5%)				50
SUPERVISION, INSPECTION & OVERHEAD (1.45%)				15
FEDERAL SHARE				788
STATE SHARE ... NON ADD				(278)
TOTAL REQUEST				788
EQUIP PROVIDED FROM OTHER FED APPR ... NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
A specially designed addition/alteration to the existing armory, with matching masonry and architectural style. A single story structure with a built up roof and concrete floors, to include mechanical and electrical equipment. Classroom and administrative areas will be air conditioned.
Air Conditioning: 12 tons

11. REQUIREMENT: 26,328 SF ADEQUATE: 0 SF SUBSTANDARD: 13,999 SF

PROJECT: An addition of 12,329 SF is required to meet the current space criteria established by National Guard Regulation 415-10. (Current Mission)

REQUIREMENT: A facility addition/alteration of 26,328 SF is requested to meet the storage, administrative, and training requirements of the existing unit and the new unit assigned to the armory. The larger facility would greatly enhance the proficiency in required training and the accomplishment of the assigned readiness objectives.

CURRENT SITUATION: The present one unit armory was constructed in 1971 and consists of 13,999 SF. There are two units now assigned to the armory. The facility has been sufficiently maintained to warrant the addition. The armory is located on 5 acres and provides adequate area to construct an 12,329 SF addition.

IMPACT IF NOT PROVIDED: Assigned units will be required to use the overcrowded facility, with a deficiency of 12,329 SF in storage, classroom, administrative, training, supply and food preparation areas. The overcrowded conditions will continue to have an adverse effect on troop morale, affecting the recruiting and retention of personnel for the units. Readiness will continue to be impaired.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION LOGAN, UTAH		
4 PROJECT TITLE ARMORY ADDITION/ALTERATION	5 PROJECT NUMBER 490038	

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 8/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 10/88
(d) Date Design Complete....................... 6/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs...................(0)
(c) Total.....................................(34)
(d) Contract..................................(34)
(e) In-house..................................(0)

(4) Construction Start........................ 4/91 (month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)

NONE

1 COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
NEWPORT NEWS, VIRGINIA

4. AREA CONSTR COST INDEX
1.48

5 FREQUENCY AND TYPE UTILIZATION

NORMAL ADMINISTRATION FIVE (5) DAYS PER WEEK WITH A TWO DAY TRAINING ASSEMBLY PER MONTH

6 OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	HAMPTON	(10 MILES)	ARMORY	11,880 SF	1934
	NEWPORT NEWS	(4 MILES)	ARMORY	16,500 SF	1930
	NORFOLK	(20 MILES)	ARMORY	37,315 SF	1961

7 PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS	
				START	COMPLETE
171	ARMORY	32,277 SF	2,481	8/88	7/90

8 STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

27 JAN 89
(Date)

9 LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10 PROJECTS PLANNED IN NEXT FOUR YEARS

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
NEWPORT NEWS, VIRGINIA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	6		6		210	6	204
ACTUAL	6		6		229	7	222

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
BATTERY A, 1-111TH FIELD ARTILLERY UIC WPHJA0 TPSN 21862	105	111
BATTERY C, 1-111TH FIELD ARTILLERY UIC WPHJC0 TPSN 21862	105	118
TOTAL	210	229

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
WHEELED VEHICLES	34	32
TRAILERS	26	22

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION NEWPORT NEWS, VIRGINIA	4. PROJECT TITLE ARMORY

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 510024	8. PROJECT COST ($000) 2,481

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,886
ARMORY BUILDING	SF	28,977	63.00	(1,826)
FLAMMABLE MATERIALS BUILDING	SF	150	30.00	(5)
UNHEATED METAL STORAGE BUILDING	SF	3,150	17.50	(55)
SUPPORTING FACILITIES				431
SITE PREPARATION	LS	-	-	(206)
MILITARY PARKING	SY	3,650	12.00	(44)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(37)
FENCING	LF	769	10.50	(8)
OFF-STREET PARKING, ACCESS ROADS	SY	7,080	12.00	(85)
UTILITIES: WATER AND SEWER	LS	-	-	(7)
SIDEWALK & FLAGPOLE	LS	-	-	(7)
WASH PLATFORM AND RIGID PAVING	LS	-	-	(15)
FUEL DISPENSING SYSTEM	LS	-	-	(22)
SUBTOTAL				2,317
CONTINGENCY (5%)				116
SUPERVISION, INSPECTION & OVERHEAD (2.0%)				48
TOTAL REQUEST				2,481
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(20)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This is a specially designed armory facility of permanent masonry type construction with built-up roof and concrete floors. A one-story structure with mechanical and electrical equipment. Supporting facilities such as site preparation, paving and fencing are included.

Air Conditioning: 25 tons

11. REQUIREMENT: 32,277 SF ADEQUATE: 0 SF SUBSTANDARD: 28,380 SF

PROJECT: A new facility is requested to serve the peacetime mission of these units. The space will permit all assigned personnel to perform the necessary tasks that will improve their readiness posture for support in combat objectives. The existing armories cannot be economically expanded. (Current Mission)

REQUIREMENT: This facility is required to house Batteries A and C of 1-111 FA with a total of 210 Required personnel. This armory will provide the necessary administration, indoor training, and storage spaces to achieve the proficiency in required training and to accomplish the assigned readiness objectives. Sited on federally owned land.

CURRENT SITUATION: The present armories constructed in the early 1930s are without adequate heating/cooling, administrative, storage, classroom or weapons storage space. A economic study indicated this area does not justify expansion. The facilities will be returned to local control when the new armory is constructed.

IMPACT IF NOT PROVIDED: Assigned units will be required to use the two overcrowded facilities with a deficiency in required areas. These conditions will continue to have an adverse effect on troop morale, affecting the retention and recruiting of personnel.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION NEWPORT NEWS, VIRGINIA		
4 PROJECT TITLE ARMORY		5 PROJECT NUMBER 510024

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started......................... 8/88
(b) Percent Complete as of January 1990 ...... 65%
(c) Date Design Expected to be 35% Completed.... 4/89
(d) Date Design Complete........................ 7/90

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(162)
(d) Contract..................................(162)
(e) In-house..................................(0)

(4) Construction Start......................... 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Kitchen Equipment	AMSCO 522811.00	91	15
J-SIIDS	AMSCO 5212.000	91	5

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
SANDSTON, VIRGINIA

4. AREA CONSTR COST INDEX
1.48

5. FREQUENCY AND TYPE UTILIZATION
THIS IS A FULL-TIME TRAINING FACILITY.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
ARNG: NONE

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211	ARMY AVIATION SUPPORT FACILITY, PHASE II	LS	2,515	3/89	7/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.
27 JAN 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE
0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

FY 94 ARMY AVIATION SUPPORT FACILITY ADD, PH III $2,654

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
ARNG		31 JAN 90

3. INSTALLATION AND LOCATION
SANDSTON, VIRGINIA

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	80	19	60	1	347	114	233
ACTUAL	56	17	38	1	403	116	287

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
COMPANY E, 224TH AVIATION UIC WV6LAA TPSN 0702903	154	181
COMPANY D, 224TH AVIATION UIC WV6PAA TPSN 0702903	108	129
986TH MEDICAL DETACHMENT UIC WVFUAA TPSN 32774	53	61
HEADQUARTERS & HEADQUARTERS COMPANY 176TH ENGINEER GROUP (AVIATION SECTION) UIC WPOXAA TPSN 31321	32	32
TOTAL	347	403

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
AIRCRAFT		
C-12	1	1
OH-6	3	7
UH-1	33	33
UH-60	15	11

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION SANDSTON, VIRGINIA	4. PROJECT TITLE ARMY AVIATION SUPPORT FACILITY, PHASE II

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 211	7. PROJECT NUMBER 510047	8. PROJECT COST ($000) 2,515

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY.............................				1,628
ARMY AVIATION SUPPORT FACILITY, PH II.......	SY	46,920	34.60	(1,628)
SUPPORTING FACILITIES........................			735	
PRIVATELY OWNED VEHICLE PARKING............	SY	1,000	18.00	(18)
OPEN STORAGE...............................	SY	577	24.26	(14)
FUEL DISTRIBUTION SYSTEM...................	LS	-	-	(30)
FUEL/DEFUEL PADS...........................	LS	-	-	(169)
FUEL TANKS.................................	LS	-	-	(360)
UTILITIES..................................	LS	-	-	(43)
DEMOLITION.................................	LS	-	-	(101)
SUBTOTAL.				2,363
CONTINGENCY (5%).............................				118
SUPERVISION, INSPECTION & OVERHEAD (1.37%)....				34
TOTAL REQUEST................................				2,515
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
Tie down pads to consist of 6" of portland cement, reinforced with #3 rebar over 7" of stone base course. Taxiways to consist of 1 1/2" S-5, 2 1/2" S-5, over 5" of stone base course.

Air Conditioning: None

11. REQUIREMENT: 54,740 SF ADEQUATE: 7,820 SF (PH I) SUBSTANDARD: 25,500 SF

PROJECT: This project (Phase II) will complete the planned restructuring and realignment of aircraft parking at this facility and add a new and more efficient fueling/defueling system which must be included in this phase due to displacement of the existing tanks. (Current Mission)

REQUIREMENT: This facility needs larger tiedown space to accommodate the additional UH-60 aircraft. Existing pads are undersized and beginning to show signs of deterioration.

CURRENT SITUATION: Due to the existing design and limitations of this facility, there is not adequate space to park the UH-60 aircraft now assigned. Presently, some of these aircraft must be parked on the grass and outside of the fenced property line.

IMPACT IF NOT PROVIDED: Failure to provide this needed space will seriously affect the safety, training and readiness at this facility.

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90
3 INSTALLATION AND LOCATION SANDSTON, VIRGINIA		
4 PROJECT TITLE ARMY AVIATION SUPPORT FACILITY, PHASE II		5 PROJECT NUMBER 510047

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started........................ 3/89
(b) Percent Complete as of January 1990 ...... 65%
(c) Date Design Expected to be 35% Completed.... 6/89
(d) Date Design Complete........................ 7/90

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total....................................(111)
(d) Contract.................................(111)
(e) In-house.................................(0)

(4) Construction Start......................... 12/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	NONE		

154

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP GUERNSEY, WYOMING

4. AREA CONSTR COST INDEX
1.40

5. FREQUENCY AND TYPE UTILIZATION

CAMP GUERNSEY IS USED FOR WEEKEND TRAINING 30 WEEKENDS AND ANNUAL TRAINING 12 WEEKS PER YEAR

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG:	**WHEATLAND**	**(28 MILES)**	**OMSS**	**3,160 SF**	**1959**
	WHEATLAND	**(28 MILES)**	**ARMORY**	**10,062 SF**	**1963**
	TORRINGTON	**(33 MILES)**	**ARMORY**	**17,033 SF**	**1933**

7. PROJECTS REQUESTED IN THIS PROGRAM:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171	TRAINING SITE: ADMIN/ SUPPLY/BARRACKS	21,244 SF	983	4/88	5/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

FACILITIES IDENTIFIED IN ITEM 6 HAVE BEEN EXAMINED BY THE STATE JOINT SERVICE RESERVE COMPONENT FACILITY BOARD FOR POSSIBLE JOINT USE/EXPANSION. THE BOARD RECOMMENDATIONS ARE UNILATERAL CONSTRUCTION.

8 DEC 89
(Date)

9. LAND ACQUISITION REQUIRED
NONE

0
(Number of acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

FY 93	**AIRFIELD IMPROVEMENTS, PH I**	**$2,947**
FY 93	**LAND ACQUISITION, PH I**	**$4,200**
FY 94	**UTILITIES UPGRADE**	**$1,503**
FY 94	**WINTERIZE BARRACKS, PH II**	**$ 955**

"A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED."

DD Form 1390S/1, MAY 78 120/215

1. COMPONENT ARNG	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION
CAMP GUERNSEY, WYOMING

11. PERSONNEL STRENGTH AS OF 15 NOV 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	100	1	6	94		N/A	
ACTUAL	83	1	4	78		N/A	

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
ALL WYOMING ARNG UNITS PLUS VISITING ARNG FROM OTHER STATES, ARMY RESERVE, NAVAL RESERVE, ANG, AND ACTIVE COMPONENTS	N/A	N/A

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL

N/A

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
A. AIR POLLUTION	NONE
B. WATER POLLUTION	NONE
C. OCCUPATIONAL SAFETY AND HEALTH	NONE

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION CAMP GUERNSEY, WYOMING	4. PROJECT TITLE TRAINING SITE: ADMIN/SUPPLY/ BARRACKS

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 560005	8. PROJECT COST ($000) 983

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				892
ADMIN/SUPPLY/BARRACKS	SF	21,244	42.00	(892)
SUPPORTING FACILITIES				26
SITE PREPARATION	LS	-	-	(15)
FINE GRADING, SEEDING & PLANTING	LS	-	-	(1)
PARKING AREA	SY	280	9.00	(3)
SIDEWALKS	SF	1,000	2.00	(2)
UTILITIES: WATER, GAS, SEWER, ELECT & TELE	LS	-	-	(5)
SUBTOTAL				918
CONTINGENCY (5%)				46
SUPERVISION, INSPECTION & OVERHEAD (2.0%)				19
TOTAL REQUEST				983
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Specially designed insulated facilities of permanent masonry type construction, concrete masonry units with built up roof and concrete floors, including mechanical and electrical equipment. Utility connections are included in this construction.

Air Conditioning: None

11. REQUIREMENT: 21,244 SF ADEQUATE: 0 SF SUBSTANDARD: 10,240 SF

PROJECT: This project will support the units of the Wyoming Army National Guard to perform winter training at Camp Guernsey. (Current Mission)

REQUIREMENT: This proposed project is requested to provide 21,244 SF of winterized housing, administration, and supply area to permit authorized personnel to perform the assigned missions. The administration and storage area is the minimum essential SF to effectively train and accomplish the combat readiness objectives.

CURRENT SITUATION: 144 metal hutments provide company administrative, supply and barracks areas. Each hutment is 512 SF, uninsulated, with three incandescent pull chain light fixtures and six convenience outlets. The hutments are unusable during cold weather. 20 existing hutments will be removed and salvaged.

IMPACT IF NOT PROVIDED: Camp Guernsey is an excellent training site for year round use. Due to the lack of adequate facilities the units of Wyoming Army National Guard must train during the warmer months or travel to other States to conduct training. Valuable readiness training will continue to be lost if Camp Guernsey can only be used during the warmer months.

1 COMPONENT ARNG	FY 19~91~ MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
CAMP GUERNSEY, WYOMING

4 PROJECT TITLE TRAINING SITE: ADMIN/SUPPLY/BARRACKS	5 PROJECT NUMBER 560005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
(a) Date Design Started.......................... 4/88
(b) Percent Complete as of January 1990 ...... 100%
(c) Date Design Expected to be 35% Completed.... 10/88
(d) Date Design Complete......................... 5/89

(2) Basis:
(a) Standard or Definitive Design - Yes____ No X
(b) Where Design Was Most Recently Used N/A

(3) Total cost (c) = (a) + (b) or (d) + (e): ($000)
(a) Production of Plans and Specifications....(0)
(b) All Other Design Costs....................(0)
(c) Total.....................................(43)
(d) Contract..................................(43)
(e) In-house..................................(0)

(4) Construction Start........................ 10/90
(month and year)

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
	NONE		

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION EXISTING ARMORIES IN VARIOUS STATES	4. PROJECT TITLE ARMORY UNIT STORAGE BUILDINGS

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 171	7. PROJECT NUMBER 999911	8. PROJECT COST ($000) $1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY.............................				1,200
STORAGE BUILDING...........................	LS	-	-	(1,200)
SUPPORTING FACILITIES..........................				294
SITE PREPARATION...........................	LS	-	-	(120)
FENCING....................................	LS	-	-	(100)
SECURITY LIGHTING..........................	LS	-	-	(74)
SUBTOTAL.....................................				1,494
CONTINGENCY (5%).............................				75
SUPERVISION, INSPECTION & OVERHEAD (2%).......				31
TOTAL REQUEST................................				1,600
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
An unheated pre-engineered metal, pre-cast or masonry building on a concrete slab foundation with minimal lighting and electrical outlets, and gravity ventilation. Support facilities for this type building include security lighting and security fencing.

Air Conditioning - None

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: The various States have identified a shortage in armory unit storage, estimated at $37.1 million for 676 buildings of various sizes and capacities. These warehouses, with minimal support features, will be constructed adjacent to existing armories. This is a multi year program, with this phase acquiring approximately 10 storage buildings for various locations throughout the country.

REQUIREMENT: These facilities are required to supplement the existing inadequate supply rooms at armories where increases in pre-mobilization mission has outstripped all storage capabilities.

CURRENT SITUATION: Most armories do not have adequate space within the existing building to store and safeguard the equipment issued under current Authorized Level of Organization (ALO) for mobilization.

IMPACT IF NOT PROVIDED: Increased amounts of authorized supplies and equipment must be safeguarded and be reasonably secure from the elements. Other training and administrative space will be converted into secure storage space with the adverse effects on the unit's training and readiness mission.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION EXISTING ARMORIES IN VARIOUS STATES	4. PROJECT TITLE INDOOR RANGE MODERNIZATION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE 179	7. PROJECT NUMBER 999912	8. PROJECT COST ($000) 2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				1,900
INDOOR RANGES	LS	-	-	(1,900)
SUPPORTING FACILITIES				154
SITE PREPARATION	LS	-	-	(154)
SUBTOTAL				2,054
CONTINGENCY (5%)				103
SUPERVISION, INSPECTION & OVERHEAD (2%)				43
TOTAL REQUEST				2,200
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
Correct environmental conditions, remove hazardous lead particles contamination at armory indoor rifle ranges, install ventilation systems, air exhaust systems, adequate bullet traps and acoustical treatment. Construct new ranges if necessary with these same features.
Air Conditioning: None

11. REQUIREMENT: N/A ADEQUATE: N/A SUBSTANDARD: N/A

PROJECT: Modernize or replacement of closed indoor rifle ranges are required for small arms and marksmanship training for members of reserve components assigned at various locations throughout the country. This is a multi year program to correct the deficiencies which have closed indoor ranges at 1,064 armories. If range modernization is not cost effective, replacement indoor ranges will be constructed. Approximately 80 closed ranges will be corrected during each phase of the program.

REQUIREMENT: The States have identified 689 ranges that are closed or severely curtailed because of hazardous amounts of airborne lead and lead oxide particles, lack of ventilation, inadequate acoustics and other health and safety problems. Return of these ranges to functional training use is required to acquire necessary individual weapons and marksmanship training by assigned Army National Guard units during periods of inactive duty training.

CURRENT SITUATION: The indoor ranges are closed, limited, or severely restricted because of health risk to military personnel.

IMPACT IF NOT PROVIDED: The lack of marksmanship familiarization and qualification practice during inactive duty training periods will effect combat readiness.

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DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS	4. PROJECT TITLE PROJECTS $400,000 AND UNDER

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE N/A	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $2,158

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PROJECTS $400,000 AND UNDER..................				2,158

10. DESCRIPTION OF PROPOSED CONSTRUCTION
Projects having a funded cost of $400,000 or less, including construction, alteration or conversion of permanent or temporary facilities.

11. REQUIREMENT: Included are specified projects that are described and listed on the subsequent pages.

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1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
ARNG INSTALLATIONS, VARIOUS LOCATIONS

4 PROJECT TITLE PROJECTS $400,000 AND UNDER	5 PROJECT NUMBER VARIOUS

Station	Cat Code	Project Title	Cost ($000)
Alaska			
Akiachak (PN: 020080)	171	Scout Armory Expansion	275

This project provides facilities adequate to perform necessary training of the assigned scout detachment. Administration areas are included in the construction. The building is to be a pre-engineered structure erected at this remote site. (Current Mission)

Alaska			
Golovin (PN: 020069)	171	Scout Armory Construction	275

This project provides a new facility adequate to perform necessary training of the assigned scout detachment. Administration areas are included in the construction. The building is to be a pre-engineered structure erected at this remote site. (Current Mission)

Alaska			
Kasigluk (PN: 020081)	171	Scout Armory Expansion	275

This project provides facilities adequate to perform necessary training of the assigned scout detachment. Administration areas are included in the construction. The building is to be a pre-engineered structure erected at this remote site. (Current Mission)

Kansas			
Iola (PN: 200027)	214	Organizational Maintenance Shop Addition / Alteration	399

This project will support the increased items of combat equipment required because of conversion of supported units. The construction provides four additional work bays, a battery room, and additional storage area. The alterations will enlarge and improve the latrines, locker rooms, break area, administrative area, and tool storage room. (Current Mission)

1 COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 31 JAN 90

3 INSTALLATION AND LOCATION
ARNG INSTALLATIONS, VARIOUS LOCATIONS

4 PROJECT TITLE PROJECTS $400,000 AND UNDER	5 PROJECT NUMBER VARIOUS

Station	Cat Code	Project Title	Cost ($000)
Oregon Camp Rilea (PN: 410014)	171	Medical Unit Training Facility	312

This project will provide a Medical Training Facility to support the medical training requirements of Medical Units which train at Camp Rilea. The facility will provide space for medical and dental examination and treatment plus emergency treatment training and aeromedical evacuation training during inactive duty training periods and at annual training. (Current Mission)

Washington Everett / Snohomish (PN: 530001)	214	Organizational Maintenance Shop	345

This project will construct a three bay Organizational Maintenance Shop and the necessary administration area, tool room, supply and storage areas, latrine, locker room, break area, communication / electronic room and battery room required to support the increased levels and new types of assigned equipment. A flammable materials storage building will also be constructed. (Current Mission)

Wyoming Lander (PN: 560021)	214	Organizational Maintenance Sub-Shop	277

This project will construct a one bay Organizational Maintenance Sub-Shop and the necessary work areas, supply rooms and administrative space to support the increased level of assigned equipment at this distant site. Supporting facilities include a loading ramp, a waste oil storage tank, and vehicle parking areas. (Current Mission)

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS	4. PROJECT TITLE PLANNING AND DESIGN

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE N/A	7. PROJECT NUMBER 999903	8. PROJECT COST ($000) $4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY				4,100
CONCEPT AND FINAL DESIGN				(3,200)
FUTURE YEAR PROJECTS				(900)
SUPPORTING FACILITIES				0
SUBTOTAL				4,100
CONTINGENCY (0%)				0
TOTAL REQUEST				4,100

10. DESCRIPTION OF PROPOSED CONSTRUCTION
Items provide for concept and final design of construction for Army National Guard facilities.

11. REQUIREMENT: Funds requested are required for completing the outstanding final design of Military Construction Army National Guard projects programed for execution during FY 92 and for execution of the planned designs of the FY 93 program (minimum of 35 percent complete for each planned project). Funding request reflects decrease over prior year (FY 90) and is considered to be the absolute minimum to achieve only the mandated design status increment for projects programed during the cited fiscal years. Funding for advanced concept design of critical FY 92 projects will be addressed within overall program constraints. The requested funding permits the designs of unspecified or undefined minor construction projects intended to be executed during FY 91.

1. COMPONENT ARNG	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 31 JAN 90

3. INSTALLATION AND LOCATION APPROPRIATE ARMY NATIONAL GUARD INSTALLATIONS AS NECESSARY	4. PROJECT TITLE MINOR CONSTRUCTION

5. PROGRAM ELEMENT 0505896A	6. CATEGORY CODE N/A	7. PROJECT NUMBER 999902	8. PROJECT COST ($000) $3,786

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITY............................				3,712
MINOR CONSTRUCTION FACILITIES				
UNSPECIFIED LOCATIONS......................				(3,712)
SUPPORTING FACILITIES.........................				0
SUBTOTAL......................................				3,712
CONTINGENCY (0%).............................				0
SUPERVISION, INSPECTION & OVERHEAD (2%).......				74
TOTAL REQUEST				3,786
EQUIP PROVIDED FROM OTHER FED APPR.....NON ADD				(0)

10. DESCRIPTION OF PROPOSED CONSTRUCTION
Unspecified minor construction projects which have a funded cost of $400,000 or less, including construction, alteration, or conversion of permanent or temporary facilities or land acquisition as authorized.
Air Conditioning - None

11. REQUIREMENT: To provide funds for the construction of projects not otherwise authorized by law when the dollar costs are less than $400,000. Such requirements are the result of recognized facilities shortfalls, or unforeseen conditions resulting from changes in mission and equipment, or to correct damage caused by severe weather or other acts of nature. Based on prior program execution experience, the dollar costs for correcting these identified shortfalls are such that they do not require specific authorization in the regular Military Construction Program for execution and funds are not available in the Operations and Maintenance Programs for Guard and Reserve Components.

DEPARTMENT OF THE ARMY
UNITED STATES ARMY RESERVE

MILITARY CONSTRUCTION PROGRAM

FY 1991 BUDGET ESTIMATE

SUBMITTED TO CONGRESS
JANUARY 1990

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Department of the Army
Military Construction, Army Reserve - FY 1991
Index of Locations
(Dollars in Thousands)

State/ Country	Installation and Location Project Title	Auth/ Approp Amount	DD Form 1391 Page No.
	INSIDE THE UNITED STATES		
Alabama	Mobile (Arlington Point)		
	USAR Center/Organizational Maintenance Shop	3,188	II-3
	Subtotal	3,188	
Arkansas	Fort Chaffee		
	Regional Training Site-Maintenance	2,651	II-7
	Subtotal	2,651	
Georgia	Fort Gordon		
	USAR Center/Organizational Maintenance Shop	9,534	II-11
	Subtotal	9,534	
Hawaii	Fort Shafter		
	Expand Equipment Concentration Site/Warehouse	1,300	II-15
	Subtotal	1,300	
Idaho	Boise		
	Alteration to AFR Center/ Organizational Maintenance Shop/Area Maintenance Support Activity/Equipment Concentration Site	7,227	II-19
	Subtotal	7,227	

Department of the Army
Military Construction, Army Reserve - FY 1991
Index of Locations
(Dollars in Thousands)

State/ Country	Installation and Location Project Title	Auth/ Approp Amount	DD Form 1391 Page No.
Louisiana	Lake Charles		
	Addition/Alteration to USAR Center/Organizational Maintenance Shop	1,883	II-24
	Subtotal	1,883	
Maine	Bangor		
	Armed Forces Reserve Center (Jt w/NGB)	1,138	II-28
	Subtotal	1,138	
Minnesota	Walker		
	USAR Center	2,159	II-32
	Subtotal	2,159	
Mississippi	Vicksburg		
	USAR Center/Organizational Maintenance Shop	6,978	II-36
	Subtotal	6,978	
New York	Bronx		
	Addition/Alteration to USAR Center/Organizational Maintenance Shop	8,099	II-40
	Subtotal	8,099	

Department of the Army
Military Construction, Army Reserve - FY 1991
Index of Locations
(Dollars in Thousands)

State/ Country	Installation and Location Project Title	Auth/ Approp Amount	DD Form 1391 Page No.
Ohio	Kenton		
	Addition/Alteration to USAR Center/Organizational Maintenance Shop	2,804	II-45
	Subtotal	2,804	
Pennsylvania	New Castle		
	Addition/Alteration to USAR Center/Organizational Maintenance Shop	1,418	II-50
	Subtotal	1,418	
Virginia	Covington		
	Addition/Alteration to USAR Center	1,654	II-55
	Subtotal	1,654	
Wisconsin	Fort McCoy		
	Regional Training Site-Medical	2,258	II-59
	Subtotal	2,258	
	Subtotal Major Construction	52,291	
Support	Minor Construction	2,253	II-61
	Planning and Design	4,756	II-62
	Grand Total Authorization/ TOA	59,300	

Department of the Army
Military Construction, Army Reserve - FY 1991
New Mission/Current Mission Listing
(Dollars in Thousands)

Location	Project	Cost	New/ Current
Mobile, AL	USAR Center/Organizational Maintenance Shop	3,188	N
Fort Chaffee, AR	Regional Training Site-Maintenance	2,651	N
Fort Gordon, GA	USAR Center/Organizational Maintenance Shop	9,534	N
Fort Shafter, HI	Expand Equipment Concentration Site/Warehouse	1,300	N
Boise, ID	Alteration to AFR Center/ Organizational Maintenance Shop/Area Maintenance Support Activity/Equipment Concentration Site	7,227	N
Lake Charles, LA	Addition/Alteration to USAR Center/Organizational Maintenance Shop	1,883	C
Bangor, ME	Armed Forces Reserve Center (Jt w/NGB)	1,138	C
Walker, MN	USAR Center	2,159	C
Vicksburg, MS	USAR Center/Organizational Maintenance Shop	6,978	N
Bronx, NY	Addition/Alteration to USAR Center/Organizational Maintenance Shop	8,099	C
Kenton, OH	Addition/Alteration to USAR Center/Organizational Maintenance Shop	2,804	C
New Castle, PA	Addition/Alteration to USAR Center/Organizational Maintenance Shop	1,418	C

Department of the Army
Military Construction, Army Reserve - FY 1991
New Mission/Current Mission Listing
(Dollars in Thousands)

Location	Project	Cost	New/ Current
Covington, VA	Addition/Alteration to USAR Center	1,654	C
Fort McCoy, WI	Regional Training Site-Medical	2,258	N
	Total New Mission	33,136	
	Total Current Mission	19,155	
Various Locations	Minor Construction	2,253	
Various Locations	Planning and Design	4,756	

26-769 O—90——30

DEPARTMENT OF DEFENSE
AMENDED FY 1991 BUDGET

RECONCILIATION OF CHANGES
($ in Millions)

Appropriation: Military Construction, Army Reserve

	FY 1990			FY 1991		
Program/Item	April Budget Revision	Adjustment	FY 1990 Revised Budget	April Budget Revision	Adjustment	Amended FY 1991 Budget
01/Major Construction	69,761	+ 900	70,661	55,004	-2,713	52,291
02/Unspecified Minor	1,751	0	1,751	1,751	+ 502	2,253
03/Planning and Design	5,388	+ 3,000	8,388	5,145	- 389	4,756
Appropriation Total	76,900	+ 3,900	80,800	61,900	-2,600	59,300
Gramm-Rudman-Hollings Sequestration		- 1,336	79,464			

DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FY 1991

APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, ARMY RESERVE

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Army Reserve as authorized by Chapter 133 of Title 10, United States Code and military construction Authorization Acts, $59,300,000 ($85,958,000) (1) (2), to remain available until September 30, 1995 (1993) (1) (2).

(1) Insertion of FY 1991 request.

(2) Deletion of FY 1989 appropriation.

Mil. Con., Army Reserve
Program and Financing (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-2086-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction	73,128	69,325	52,291	75,531	74,850	54,950
00.0201	Minor construction	1,587	1,751	2,253	152	2,980	2,327
00.0301	Planning	11,130	8,388	4,756	7,872	12,747	5,352
10.0001	Total	85,845	79,464	59,300	83,555	90,577	62,629
	Financing:						
17.0001	Recovery of prior year obligations				-777		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans				-26,822	-29,468	-18,355
21.4003	Available to finance new budget plans		-329	-16,660		-329	-16,660
21.4009	Reprograming from/to prior year budget pla	-420					
23.4090	Reduction pursuant to P.L. 99-177 in unob ba		329			329	
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				29,468	18,355	15,026
24.4003	Available to finance subsequent year budge	329	16,660		329	16,660	
25.0001	Unobligated balance lapsing	204			204		
39.0001	Budget authority	85,958	96,124	42,640	85,958	96,124	42,640
	Budget authority:						
40.0001	Appropriation	85,958	97,460	59,300	85,958	97,460	59,300
40.0090	Reduction pursuant to P.L. 99-177		-1,336			-1,336	
41.2201	Transferred to other accounts (unob bals)			-16,660			-16,660
43.0001	Appropriation (adjusted)	85,958	96,124	42,640	85,958	96,124	42,640
	Relation of obligations to outlays:						
71.0001	Obligations incurred, net				83,555	90,577	62,629
72.4001	Obligated balance, start of year				93,942	88,656	92,933
74.4001	Obligated balance, end of year				-88,656	-92,933	-70,262
77.0001	Adjustments in expired accounts (net)				-31		
78.0001	Adjustments in unexpired accounts				-777		
90.0001	Outlays				88,033	86,300	85,300

Mil. Con., Army Reserve
Object Classification (in Thousands of dollars) SUMMARY

29 Jan 90

Identification code 21-2086-0-1-051		1989 actual	1990 est.	1991 est.
	Direct obligations:			
	Personnel compensation:			
111.101	Full-time permanent	3,443	3,243	3,344
111.301	Other than full-time permanent		12	14
111.501	Other personnel compensation		75	77
111.901	Total personnel compensation	3,443	3,330	3,435
112.101	Personnel Benefits: Civilian personnel	665	625	645
121.001	Travel and transportation of persons	204	400	530
122.001	Transportation of things		5	8
123.101	Rental payments to GSA	494	550	600
124.001	Printing and reproduction	36	300	350
	Other services:			
125.004	Other	32,537	42,698	25,448
126.001	Supplies and materials	58	100	60
132.001	Land and structures	46,118	42,569	31,553
199.001	Total Direct obligations	83,555	90,577	62,629
999.901	Total obligations	83,555	90,577	62,629

MILITARY CONSTRUCTION, ARMY RESERVE
FY 1991

SPECIAL PROGRAM CONSIDERATIONS

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

Energy Conservation

Military construction projects specifically for energy conservation at installations have been developed, reviewed, and selected with prioritization by energy savings per investment cost. Projects include improvements to existing facilities and utilities systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

Flood Plain Management and Wetlands Protection

Proposed land acquisitions, disposals, and installation construction projects have been planned to allow the proper management of flood plains and the protection of wetlands by avoiding long and short term adverse degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11990.

Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 90-480, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

Environmental Protection

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-900), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

SPECIAL PROGRAM CONSIDERATIONS

(continued)

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

Reserve Potential

The Reserve potential to meet and maintain authorized strengths of all Reserve flying/nonflying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other Services having Reserve flying/nonflying units in these areas, that the number of units of the Reserve components of the Armed Forces presently located in those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those Reserve units.

Preservation of Historical Sites and Structures

Facilities included in this program do not directly or indirectly affect a district, site, building, structure, object, or setting listed in the National Register of Historic Places, except as noted on DD Form 1391.

Use of Excess Schools and Other Buildings

Considerations were made to utilize available commercial or academic buildings but none were suitable except as identified by specific projects in this request.

Placement of Reserve Component Units in Local Communities

The Reserve manpower potential to meet and maintain authorized strengths of all Reserve units in the areas where units are to be located has been reviewed in accordance with the procedures described in DoD Directive 1200.1. It has been determined, in coordination with the other Military Departments

SPECIAL PROGRAM CONSIDERATIONS

(continued)

having Reserve units in the area, that the number of Reserve components presently located in the area, and those units having been allocated to this area for future activation, is not and shall not be larger than the number that reasonably may be maintained at authorized strength.

Facility Planning and Design Guide

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facility Planning and Design Guide."

Congressional Reporting Requirements

The following paragraph, titled "Maintenance and Repair of Real Property," is in response to the Senate Appropriations Committee requirement contained on page 24 (Non-MILCON Construction Activities) of the Report #100-200 and page 1006 (Non-MILCON Construction activities), Senate and House Conference Report #100-498.

Appropriation	Cost ($000)
Operation and Maintenance, Army Reserve	
- Maintenance and Repair	43.0
- Minor Construction	7.1

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Mobile, AL		4. AREA CONSTR COST INDEX 1.00

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 2 weekends/month; 3 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

USAR Center, Mobile, AL - 3 miles
NG Armory, Mobile, AL - 1 mile
NG Armory, Mobile, AL - 5 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	USARC/OMS	27,873 SF	3,188	08/84	07/86

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

14 Nov 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Mobile, AL

11. PERSONNEL STRENGTH AS OF 08 Nov 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	10	1	7	2	208	31	177
ACTUAL	10	1	7	2	229	32	197

12. RESERVE UNIT DATA ASGD/AUTH 110%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
498TH TRANS CO	139	152
1184TH USATTU	69	77
Totals	208	229

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	52	43
Trailers	2	3
Totals	54	46

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Mobile, AL	4. PROJECT TITLE USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-1396	8. PROJECT COST ($000) 3,188

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				2152
Training Building	SF	24244	77.02	(1867)
Maintenance Building	SF	3629	78.53	(285)
SUPPORTING FACILITES:				726
Site Improvement	LS			(376)
Telecommunications	LS			(50)
Paving	SY	14773	18.95	(280)
Lighting	LS			(20)
TOTAL CONSTRUCTION COST				2878
Contingencies (5%)				144
Supervision and Administration (5.5%)				166
TOTAL PROJECT COST				3188

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide a 200-member Reserve center of permanent masonry type construction, brick and concrete block structure with mechanical and electrical equipment with a separate maintenance building of the same type construction. Air conditioning: 26 tons.

11. REQUIREMENT: 27,873 SF Adequate: 0 SF Substandard: 45,070 SF

PROJECT: Construct a 200-member USAR center and a two-bay maintenance shop. (New mission)

REQUIREMENT: This facility is required to house the 498th Transportation Company and the 1184th US Army Transportation Terminal Unit. This project will provide the assigned units with adequate functional areas required for the attainment and maintenance of individual and unit training and readiness. Storage space is critically short to house mandatory equipment and supplies.

CURRENT SITUATION: The units are currently housed in an overcrowded center critically short in administrative and storage space. Insufficient parking space for military vehicles, inadequate kitchen facilities and classrooms are also major problems.

IMPACT IF NOT PROVIDED: Continued use of overcrowded facilities and inadequate essential training space will impact adversely on the morale, training, retention, and readiness of the assigned units.

12. SUPPLEMENTAL DATA:

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Mobile, AL

4. PROJECT TITLE USARC/OMS	5. PROJECT NUMBER CAR 91-1396

a. Estimated Design data:
- (1) Status:
  - (a) Date Design Started. 08/84
  - (b) Percent Complete as of January 1990. 100
  - (c) Date Design 35% Complete 04/85
  - (d) Date Design Complete 07/86
- (2) Basis:
  - (a) Standard or Definitive Design - No
  - (b) Where Design Was Most Recently Used N/A
- (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
  - (a) Production of Plans and Specifications . . .(99)
  - (b) All Other Design Costs . . . .(136)
  - (c) Total. . . . .(235)
  - (d) Contract . . . .(138)
  - (e) In-house . . . .(97)
- (4) Construction start. 01/91
  month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	112
Kitchen Equipment	OMAR	1991	48
Wire Partitions	OMAR	1991	45
Metal Lockers	OMAR	1991	33
Dehumidifier	OMAR	1991	1
Total			239

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION Ft Chaffee, Ft Chaffee, AR		4. AREA CONSTR COST INDEX 0.91

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 4 weekends/month; 5 nights/week
Full-Time Personnel - 7 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

USAR Center, Fort Chaffee, AR - 3 miles
Active Instl, Fort Chaffee, AR-On Site - 0 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	Regional Training Site - Maintenance	23,193 SF	2,651	05/86	09/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

30 Mar 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE Jan 90

3. INSTALLATION AND LOCATION
Ft Chaffee, Ft Chaffee, AR

11. PERSONNEL STRENGTH AS OF 26 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	7	2	5	0	0	0	0
ACTUAL	0	0	0	0	0	0	0

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL

This facility will have a training load of approximately 17,900 person-days per year, and an expected utilization of 50 3-day weekends and 16 weeks annual training each year. Personnel fill for full-time staff is effective May 1990.

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
None		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION Ft Chaffee, Ft Chaffee, AR	4. PROJECT TITLE Regional Training Site - Maintenance

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-1548	8. PROJECT COST ($000) 2,651

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1994
Training Building Addition	SF	23193	85.98	(1994)
SUPPORTING FACILITES:				399
Site Improvement	LS			(221)
Telecommunications	LS			(33)
Paving	LS			(125)
Lighting	LS			(20)
TOTAL CONSTRUCTION COST				2393
Contingencies (5%)				120
Supervision and Administration (5.5%)				138
TOTAL PROJECT COST				2651

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for the construction of a maintenance training facility with a 25-ton overhead bridge crane and support facilities including concrete aprons adjacent to the building, gravel parking area, and chain link security fencing. The main facility will be a pre-engineered metal building on concrete slab on drilled pier foundation. Air conditioning: 50 tons.

11. REQUIREMENT: 23,193 SF Adequate: 0 SF Substandard: 0 SF

PROJECT: Construct a 10-bay Regional Training Site-Maintenance. (New mission)

REQUIREMENT: This facility is required to provide instruction and hands-on training in maintenance procedures for advanced weapons systems not available for training at home station including the M1 Abrams Tank, M2/M3 Infantry Fighting Vehicle, M9 Armored Combat Earthmover, Heavy Equipment Transporter, and others. The program of instruction which makes maximum use of training devices, prepares maintenance personnel for the M-day mission, thereby enhancing overall readiness. The facility will house seven full-time personnel and a student load of 37 to 50. Mobile training teams staffed by full-time personnel will also be available to take some training to other locations.

CURRENT SITUATION: The nondivisional maintenance units provide a higher level of maintenance to divisional units. Other regional training facilities are not available in the geographical area.

DD FORM 1 DEC 76 1391

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
Ft Chaffee, Ft Chaffee, AR

4. PROJECT TITLE Regional Training Site - Maintenance	5. PROJECT NUMBER CAR 91-1548

Students are not receiving adequate training on maintenance of advanced weapons systems. There is little or no hands-on training for these systems which adversely affects the entire wartime maintenance capability of these units, and their deployability.
IMPACT IF NOT PROVIDED: Deployability of these units will continue to suffer. More training time after mobilization will be required. Individual soldiers will not be proficient in their military occupational specialties to maintain modern weapons systems for wartime missions.
12. SUPPLEMENTAL DATA:

a. Estimated Design data:
(1) Status:
(a) Date Design Started. 05/86
(b) Percent Complete as of January 1990. 95
(c) Date Design 35% Complete 06/88
(d) Date Design Complete 09/89
(2) Basis:
(a) Standard or Definitive Design - Yes
(b) Where Design Was Most Recently Used Ft Hood, TX
(3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
(a) Production of Plans and Specifications . . .(150)
(b) All Other Design Costs . . . .(25)
(c) Total. . . . .(175)
(d) Contract . . . .(0)
(e) In-house . . . .(175)
(4) Construction start. 12/91
month and year
b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	93
Kitchen Equipment	OMAR	1991	5
Wire Partitions	OMAR	1991	2
Shelving	OMAR	1991	30
Total			130

DD FORM 1 DEC 76 1391c

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Ft Gordon, GA		4. AREA CONSTR COST INDEX 0.84

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 3 weekends/month; 5 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

USAR Center, Augusta, GA - 10 miles
USNR Center, Augusta, GA - 2 miles
NG Armory, Augusta, GA - 6 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	NEW USARC/OMS	79,281 SF	9,534	08/86	01/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

7 Mar 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Ft Gordon, GA

11. PERSONNEL STRENGTH AS OF 08 Nov 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	19	2	9	8	771	147	624
ACTUAL	19	2	9	8	805	130	675

12. RESERVE UNIT DATA ASGD/AUTH 104%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
319TH TRANS CO	177	164
324TH SIG BN HHC	160	212
382ND FLD HOSP	434	429
Totals	771	805

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	120	95
Trailers	72	40
Totals	192	135

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE Page 2 of 2

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Ft Gordon, GA	4. PROJECT TITLE NEW USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0875	8. PROJECT COST ($000) 9,534

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				6709
Training Building	SF	73903	84.26	(6227)
Maintenance Building	SF	5378	89.55	(482)
SUPPORTING FACILITES:				1898
Site Improvement	LS			(1206)
Telecommunications	LS			(74)
Paving	SY	33000	18.08	(597)
Lighting	LS			(21)
TOTAL CONSTRUCTION COST				8607
Contingencies (5%)				430
Supervision and Administration (5.5%)				497
TOTAL PROJECT COST				9534

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide a USAR center of permanent masonry type construction, brick and concrete block structure with mechanical and electrical equipment and a separate maintenance building of the same type construction. Air conditioning: 154 tons.

11. REQUIREMENT: 79,281 SF Adequate: 0 SF Substandard: 8,999 SF

PROJECT: Construct a 600-member USAR training facility and maintenance shop. (New mission)

REQUIREMENT: This facility will provide adequate training facilities for all assigned units, allowing them to train as an entity, to develop team work and the necessary cohesion required for unit readiness.

CURRENT SITUATION: Seven units utilize a 25,254 square foot USAR center in Augusta and World War II buildings at Fort Gordon. The Augusta center is being enveloped by city expansion making it undesirable for expansion. The World War II buildings are in poor condition and scheduled to be demolished. The combined facilities are critically short of administrative space, unit storage, and classrooms. The World War II buildings will be returned to the installation upon completion of this project.

IMPACT IF NOT PROVIDED: The units will not be able to properly conduct training and be prepared to meet their readiness and mobilization objectives.

12. SUPPLEMENTAL DATA:

1. COMPONENT		2. DATE
USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Ft Gordon, GA

4. PROJECT TITLE
NEW USARC/OMS

5. PROJECT NUMBER
CAR 91-0875

a. Estimated Design data:
- (1) Status:
  - (a) Date Design Started. 08/86
  - (b) Percent Complete as of January 1990. 100
  - (c) Date Design 35% Complete 05/88
  - (d) Date Design Complete 01/89
- (2) Basis:
  - (a) Standard or Definitive Design - No
  - (b) Where Design Was Most Recently Used NA
- (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
  - (a) Production of Plans and Specifications . . .(284)
  - (b) All Other Design Costs . . . .(121)
  - (c) Total. . . . .(405)
  - (d) Contract . . . .(91)
  - (e) In-house . . . .(314)
- (4) Construction start. . . . . 01/91 month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	318
Kitchen Equipment	OMAR	1991	200
Total			518

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION Fort Shafter, Fort Shafter, HI		4. AREA CONSTR COST INDEX 1.32

5. FREQUENCY AND TYPE UTILIZATION

Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

HQ WESTCOM, FT Shafter, HI - 1 mile
USNR Center, Honolulu, HI - 4 miles
USAR Ctrs (3), Ft DeRussy, HI - 8 miles
NG Armory, Ft Ruger, HI - 12 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
441-40	EXP ECS/WAREHOUSE	4,800 SF	1,300	09/87	09/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

27 Sep 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

USAR Center/OMS/DS Maint - FY 1992 $24200

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION

Fort Shafter, Fort Shafter, HI

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	30	0	0	30	0	0	0
ACTUAL	28	0	0	28	0	0	0

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL

This project will support 16 units with a combined strength of approximately 2,400 personnel.

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Trailers	456	456
Tracked Vehicles	20	20
Totals	476	476

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION Fort Shafter Fort Shafter, HI	4. PROJECT TITLE EXP ECS/WAREHOUSE

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 441-40	7. PROJECT NUMBER CAR 91-1599	8. PROJECT COST ($000) 1,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				359
Warehouse	SF	4800	74.80	(359)
SUPPORTING FACILITES:				814
Site Improvement	LS			(113)
Telecommunications	LS			(7)
Paving	SY	20300	30.69	(623)
Lighting	LS			(71)
TOTAL CONSTRUCTION COST				1173
Contingencies (5%)				59
Supervision and Administration (5.5%)				68
TOTAL PROJECT COST				1300

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project provides construction of an addition to an existing pre-engineered metal building and a military equipment park and staging area. The scope of work includes all required utilities upgrade, fire protection and alarm systems, site preparation and site improvements. AR 415-15 will apply for that area of the project in the flood plain. Air conditioning: 0 tons.

11. REQUIREMENT: 4,800 SF Adequate: 1,440 SF Substandard: 0 SF

PROJECT: Add to an existing equipment concentration site (ECS) and warehouse. (New mission)

REQUIREMENT: This project is required to support the increase in equipment authorized to be stored and maintained at the ECS for supported units, including camouflage screen supports, chemical defense and cold weather gear.

CURRENT SITUATION: The existing storage building was constructed in 1977 based on the storage requirements of the HQ, IX Corps, the 322d Civil Affairs Group, the 411th Engineer Battalion and the 100th Battalion, 442d Infantry. However, with the activation of eleven more units into the USAR program in Hawaii since 1980, the existing facility and other storage areas have become crowded. Due to lack of storage space, equipment is presently stored wherever space is available, including unit storage areas, unit work areas, temporary facilities at Fort DeRussy and the tunnel at Fort Shafter. These facilities are structurally adequate but not functional for present use. In the case

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION Fort Shafter, Fort Shafter, HI		
4. PROJECT TITLE EXP ECS/WAREHOUSE		5. PROJECT NUMBER CAR 91-1599

of the tunnel, it lacks humidity control and security and is located in a residential area.

IMPACT IF NOT PROVIDED: Continued use of inadequate, substandard facilities for storage requirements will adversely impact on the morale, training, retention and unit readiness.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
 (1) Status:
  (a) Date Design Started. 09/87
  (b) Percent Complete as of January 1990. 65
  (c) Date Design 35% Complete 09/88
  (d) Date Design Complete 09/89
 (2) Basis:
  (a) Standard or Definitive Design - No
  (b) Where Design Was Most Recently Used N/A
 (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
  (a) Production of Plans and Specifications . . .(24)
  (b) All Other Design Costs . . . .(48)
  (c) Total. . . . .(72)
  (d) Contract . . . .(2)
  (e) In-house . . . .(70)
 (4) Construction start. 01/91
  month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Wire Partitions	OMAR	1991	5
Shelving	OMAR	1991	25
Total			30

1. COMPONENT
USAR

FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION

2. DATE
Jan 90

3. INSTALLATION AND LOCATION
AFR Center (Gowen Field), Boise, ID

4. AREA CONSTR COST INDEX
1.03

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 3 weekends/month; 2 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

USNR Center, Boise, ID - 1 mile
NG Armory, Boise, ID - 1 mile
NG Armory, Boise, ID - 8 miles
USAR Center, Boise, ID - 5 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ALT AFRC/OMS/AMSA/ECS	68,700 SF	7,227	08/86	06/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

25 Jul 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

Permitted until 2034 (50-year period waived).

8.19
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

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1. COMPONENT USAR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE Jan 90

3. INSTALLATION AND LOCATION
AFR Center (Gowen Field), Boise, ID

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	23	5	11	7	482	66	416
ACTUAL	18	4	9	5	436	46	390

12. RESERVE UNIT DATA ASGD/AUTH 90%

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
321ST EN BN CO A	160	146
321ST EN BN HHC	182	169
2364TH SIG DET	55	49
244TH PERS SVC DET (PROV)	30	30
328TH GEN HOSP SEC1(PROV)	55	42
Totals	482	436

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	123	123
Trailers	38	38
Tracked Vehicles	18	18
Totals	179	179

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION AFR Center (Gowen Field), Boise, ID	4. PROJECT TITLE ALT AFRC/OMS/AMSA/ECS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0327	8. PROJECT COST ($000) 7,227

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				5235
Training Building Addition	SF	39000	85.75	(3344)
Maintenance Building	SF	9600	86.66	(832)
Warehouse	SF	20100	52.69	(1059)
SUPPORTING FACILITES:				1289
Site Improvement	LS			(816)
Telecommunications	LS			(90)
Paving	LS			(291)
Lighting	LS			(32)
Wash Racks	LS			(60)
TOTAL CONSTRUCTION COST				6524
Contingencies (5%)				326
Supervision and Administration (5.5%)				377
TOTAL PROJECT COST				7227

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project includes construction of a two-story addition to an existing AFR center, a 5-bay maintenance shop and warehouse of masonry, pre-cast concrete and steel construction and replacement of a pre-engineered metal storage building with related demolition. Air conditioning: 60 tons.

11. REQUIREMENT: 68,700 SF Adequate: 0 SF Substandard: 19,803 SF

PROJECT: Construct a 500-member USAR training facility, maintenance building and warehouse with related parking and site development. (New mission)

REQUIREMENT: This project will provide adequate training facilities for all of the assigned units and allow them space to train and develop the unit teamwork necessary for unit readiness. Unit personnel require functional and organizational space to conduct unit administration, classroom training, weapons and equipment storage and perform equipment maintenance and maintenance training. The Equipment Concentration Site (ECS) supports the mobilization mission and includes a fuel point, wash platform, loading ramp and military equipment parking. Existing privately owned vehicle parking will be expanded. A new 4000 SF storage building is provided to replace an existing building on the Army Reserve site used by the installation.

CURRENT SITUATION: An existing 2,000 square foot building, presently located on Army designated property and currently being used by the Navy will be demolished prior to the start of construction. Training

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
AFR Center (Gowen Field), Boise, ID

4. PROJECT TITLE ALT AFRC/OMS/AMSA/ECS	5. PROJECT NUMBER CAR 91-0327

is presently conducted in both a small overcrowded center and a leased building in downtown Boise. The leased facility is primarily used to handle the administrative space shortfall. The command and control problem caused by this splitting of the administrative function will be eliminated with the relocation of some units into this new facility. The existing maintenance building is not large enough or properly equipped to support either the units' maintenance requirements or missions. Additionally, there is no warehouse for storage of mobilization stock. Existing USAR center and maintenance facility will be retained for use by administrative type units. Leased facilities will be terminated upon completion of this project.
IMPACT IF NOT PROVIDED: The present substandard facilities will remain in use and the units will not be able to conduct training properly and be prepared to meet their readiness and mobilization objectives.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
(1) Status:
(a) Date Design Started. 08/86
(b) Percent Complete as of January 1990. 100
(c) Date Design 35% Complete 05/88
(d) Date Design Complete 06/89
(2) Basis:
(a) Standard or Definitive Design - No
(b) Where Design Was Most Recently Used N/A
(3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
(a) Production of Plans and Specifications . . .(546)
(b) All Other Design Costs . . . .(15)
(c) Total. . . . .(561)
(d) Contract . . . .(0)
(e) In-house . . . .(561)
(4) Construction start. 01/91
month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	301
Kitchen Equipment	OMAR	1991	75

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
AFR Center (Gowen Field), Boise, ID

4. PROJECT TITLE
ALT AFRC/OMS/AMSA/ECS

5. PROJECT NUMBER
CAR 91-0327

Wire Partitions	OMAR	1991	100
Metal Lockers	OMAR	1991	25
Dehumidifier	OMAR	1991	1
Shelving	OMAR	1991	19
Total			521

DD FORM 1 DEC 76 1391c

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Lake Charles, LA		4. AREA CONSTR COST INDEX 0.89

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 2 weekends/month; 2 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Lake Charles, LA - 1 mile
Fort Polk, Fort Polk, LA - 70 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ADD/ALT USARC/OMS	29,349 SF	1,883	06/84	06/88

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

22 Jun 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

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1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Lake Charles, LA

11. PERSONNEL STRENGTH AS OF 26 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	5	1	3	1	245	30	215
ACTUAL	4	1	3	0	216	21	195

12. RESERVE UNIT DATA ASGD/AUTH 88%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
194TH AG DET	40	37
221ST AG DET	38	35
372ND FIN SEC	159	133
935TH QM SEC	8	11
Totals	245	216

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	5	5
Trailers	14	14
Totals	19	19

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE Page 2 of 2

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Lake Charles, LA	4. PROJECT TITLE ADD/ALT USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0176	8. PROJECT COST ($000) 1,883

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1520
Training Building Addition	SF	15508	79.00	(1225)
Training Building Alteration	SF	11222	19.16	(215)
Maintenance Building Alteration	SF	2619	30.55	(80)
SUPPORTING FACILITES:				180
Site Improvement	LS			(91)
Telecommunications	LS			(10)
Paving	SY	3080	25.80	(79)
TOTAL CONSTRUCTION COST				1700
Contingencies (5%)				85
Supervision and Administration (5.5%)				98
TOTAL PROJECT COST				1883

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for the construction of an addition to and alteration of an existing training building and maintenance shop. The addition to the USARC will be one story and the exterior brick will match the existing. The floor will be constructed over piers and beams, and the roof will be built-up over insulation and supported on steel joists. New heating, ventilation, and air-conditioning equipment will be energy efficient. Other energy conservation measures will be upgraded. Air conditioning: 52 tons.

11. REQUIREMENT: 29,349 SF Adequate: 0 SF Substandard: 13,841 SF

PROJECT: Construct an addition to and alter the existing 200-member training building and construct an addition to the maintenance shop. (Current Mission).

REQUIREMENT: This facility was originally constructed in 1959 to the units' needs, but is currently undersized and substandard for housing two adjutant general detachments, a finance section, and a quartermaster detachment (petroleum). Deficiencies include no food storage or scullery and insufficient food preparation area in the kitchen; no handicapped latrine; no classroom or training aid storage in the administrative and unit storage area. Maintenance and unit storage is needed to meet present training and storage of unit equipment, and projected missions.

CURRENT SITUATION: Current facilities in use are an overcrowded

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Lake Charles, LA

4. PROJECT TITLE ADD/ALT USARC/OMS	5. PROJECT NUMBER CAR 91-0176

training center deficient in dining facility, latrines, handicapped access, classrooms, arms vault, training and unit storage; and a maintenance shop deficient in administrative, latrine, training (petroleum lab), and storage space to maintain unit/organizational equipment.
IMPACT IF NOT PROVIDED: The units will not be able to properly conduct training, store organizational equipment, or maintain unit equipment to meet readiness and mobilization objectives. Lack of adequate storage facilities requires the use of training and administrative space to store the unit and organizational equipment instead of accomplishing the training requirements.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 06/84
    (b) Percent Complete as of January 1990. 100
    (c) Date Design 35% Complete 02/86
    (d) Date Design Complete 06/88
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used NA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(220)
    (b) All Other Design Costs . . . .(130)
    (c) Total. . . . .(350)
    (d) Contract . . . .(160)
    (e) In-house . . . .(190)
  (4) Construction start. 02/91
month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	184
Kitchen Equipment	OMAR	1991	127
Wire Partitions	OMAR	1991	20
Total			331

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION AFR Center, Bangor, ME		4. AREA CONSTR COST INDEX 0.88

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 2 weekends/month; 2 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

ARNG Armory, Bangor, ME - 4 miles
ARNG Armory, Bangor, ME - 6 miles
USAR Center, Bangor, ME - 5 miles
USNR Center, Bangor, ME - 6 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	AFRC	79,903 SF	5,914 (1,138 USAR)	06/88	03/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends joint construction.

18 Oct 89
(Date)

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
AFR Center, Bangor, ME

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	2	0	1	1	134	13	121
ACTUAL	1	0	1	0	160	15	145

12. RESERVE UNIT DATA ASGD/AUTH 119%

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
76TH DIV, CO C, TRNG GP	59	84
1125TH USAH, SEC 1	75	76
Totals	134	160

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
None		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION AFR Center, Bangor, ME	4. PROJECT TITLE AFRC

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0394	8. PROJECT COST ($000) 5,914 (1,138 USAR)

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				4504
Armed Forces Reserve Center	SF	75258	58.00	(4365)
Unheated Metal Storage Building	SF	235	30.00	(7)
Flammable Materials Building	SF	4410	30.00	(132)
SUPPORTING FACILITES:				835
Site Improvement	LS			(648)
Paving	SY	13373	14.00	(187)
TOTAL CONSTRUCTION COST				5339
Contingencies (5%)				267
Supervision and Administration (5.5%)				308
TOTAL PROJECT COST				5914
Federal USAR Share				1123
Communications (USAR)				15
Total USAR Share				1138

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for construction of an Armed Forces Reserve Center. The facility will be a two-story structure with mechanical and electrical equipment constructed of permanent masonry, brick and concrete block units with standing seam metal pitched roofs and concrete floors. Project will include exterior storage buildings, a wash rack, fuel dispensing systems, parking, vehicle circulation space, and landscaping. Air conditioning: 4 tons.

11. REQUIREMENT: 79,903 SF Adequate: 0 SF Substandard: 0 SF
PROJECT: Construct an Armed Forces Reserve Center. (Current mission)

REQUIREMENT: This facility supports a training company and a hospital detachment with administrative space, small unit, and individual training facilities which include assembly hall, classrooms, library, learning center, and medical training area, arms vault and arms maintenance area, associated mess facilities, storage space for individual and unit equipment, and parking for privately owned vehicles.
CURRENT SITUATION: The existing facility is a single story brick facility constructed in 1955. The facility is short administration space for individual skill training, storage of manuals and other learning materials. A kitchen does not exist and the arms storage vault does not meet current physical security standards. Storage space

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION AFR Center, Bangor, ME		
4. PROJECT TITLE AFRC		5. PROJECT NUMBER CAR 91-0394

for unit and individual equipment does not exist requiring much of assigned equipment to be stored in other Government facilities. Parking for privately owned vehicles of unit members is severely restricted due to size of the existing center. The facility is poorly insulated and extremely cold during the winter months. Heating costs for the operation during this period are excessive.

IMPACT IF NOT PROVIDED: The units assigned will continue to suffer from poor administrative support affecting the retention and recruiting of unit members. The shortage of library, learning center, and other training facilities will severely impact on the skill qualifications of the individual soldier and the abilities of the units to train for their missions. Shortage of unit and individual storage space for equipment will continue to result in the loss of valuable training time because of the need to travel between the center and other Government facilities to obtain mission essential training equipment. These poor facilities will continue to degrade the mobilization readiness of these important assets.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 06/88
    (b) Percent Complete as of January 1990. 75
    (c) Date Design 35% Complete 01/89
    (d) Date Design Complete 03/90
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used N/A
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(108)
    (b) All Other Design Costs . . . .(200)
    (c) Total. . . . .(308)
    (d) Contract . . . .(308)
    (e) In-house . . . .(0)
  (4) Construction start. 10/90
month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	63
Kitchen Equipment	OMAR	1991	30
Total			93

DD FORM 1 DEC 76 1391c

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Walker, MN		4. AREA CONSTR COST INDEX 1.13

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 1 weekend/month; 1 night/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Park Rapids, MN - 28 miles
NG Armory, Bemidji, MN - 36 miles
USAR Center, Brainerd, MN - 59 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS	
				START	COMPLETE
171-40	NEW USARC	19,189 SF	2,159	06/85	02/88

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

9 Feb 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

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1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Walker, MN

11. PERSONNEL STRENGTH AS OF 15 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	4	0	2	2	130	5	125
ACTUAL	4	0	2	2	100	6	94

12. RESERVE UNIT DATA ASGD/AUTH 77%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
409TH INF, 1ST BN, CO H	130	100

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	10	10
Totals	10	10

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE Page 2 of 2

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Walker, MN	4. PROJECT TITLE NEW USARC

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0303	8. PROJECT COST ($000) 2,159

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1548
Training Building	SF	19189	80.67	(1548)
SUPPORTING FACILITES:				401
Site Improvement	LS			(384)
Telecommunications	LS			(17)
TOTAL CONSTRUCTION COST				1949
Contingencies (5%)				97
Supervision and Administration (5.5%)				113
TOTAL PROJECT COST				2159

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for construction of permanent facilities for a training building. New construction will include one two-story building with slab on grade, precast concrete exterior walls and single-ply roof membrane. Air conditioning: 0 tons.

11. REQUIREMENT: 19,189 SF Adequate: 0 SF Substandard: 4,316 SF

PROJECT: Construct a 150-member USAR center. (Current mission)

REQUIREMENT: This project will support an infantry company with administrative space, small unit and individual training facilities which include classrooms, library, learning center, arms vault and arms maintenance area, rifle range, associated mess facilities, storage space for individual and unit equipment, and parking for privately owned vehicles.

CURRENT SITUATION: The existing facility is a 25-member USAR center with 4,316 square feet constructed in 1959. Administration space is deficient and cannot support the full-time administrators. Other space has been modified to meet full-time personnel support requirements. The existing facility is short space for training, classrooms, small unit training, individual skill training, and storage of manuals and other learning materials. Unit and individual equipment has been stored in other Government facilities. There is insufficient privately owned vehicle parking which requires unit members to park on city streets in a residential neighborhood. The present USAR center will be demolished. The maintenance building will be used as is.

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Walker, MN

4. PROJECT TITLE NEW USARC	5. PROJECT NUMBER CAR 91-0303

IMPACT IF NOT PROVIDED: The unit assigned will continue to suffer from poor administrative support affecting the retention and recruiting of unit members. Lack of classroom and training facilities will severely impact on the skill qualification of the individual soldiers and the abilities of the unit to train for their combat mission. Shortage of unit and individual storage space for equipment will continue to result in the loss of valuable training time because of the need to travel between the center and other Government facilities to obtain mission essential training equipment. These inadequate facilities will continue to degrade the mobilization readiness of this crucial combat asset.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
(1) Status:
(a) Date Design Started 06/85
(b) Percent Complete as of January 1990. 100
(c) Date Design 35% Complete 06/86
(d) Date Design Complete 02/88
(2) Basis:
(a) Standard or Definitive Design - No
(b) Where Design Was Most Recently Used NA
(3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
(a) Production of Plans and Specifications . . .(92)
(b) All Other Design Costs . . . .(133)
(c) Total. . . . .(225)
(d) Contract . . . .(151)
(e) In-house . . . .(74)
(4) Construction start. 04/91
month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	109
Kitchen Equipment	OMAR	1991	26
Metal Lockers	OMAR	1991	23
Total			158

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1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Vicksburg, MS		4. AREA CONSTR COST INDEX 0.82

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 3 weekends/month; 3 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Vicksburg, MS - 3 miles
CG Station, Vicksburg, MS - 8 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	USARC/OMS	75,725 SF	6,978	02/87	01/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

9 Mar 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Vicksburg, MS

11. PERSONNEL STRENGTH AS OF 08 Nov 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	24	3	12	9	268	95	173
ACTUAL	23	3	11	9	301	83	218

12. RESERVE UNIT DATA ASGD/AUTH 112%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
412TH ENCOM	268	301

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Trailers	2	2
Totals	2	2

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Vicksburg, MS	4. PROJECT TITLE USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0589	8. PROJECT COST ($000) 6,978

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				5476
Training Building	SF	71033	72.30	(5136)
Maintenance Building	SF	4692	72.46	(340)
SUPPORTING FACILITES:				823
Site Improvement	LS			(645)
Telecommunications	LS			(36)
Paving	SY	5882	21.42	(126)
Lighting	LS			(16)
TOTAL CONSTRUCTION COST				6299
Contingencies (5%)				315
Supervision and Administration (5.5%)				364
TOTAL PROJECT COST				6978

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide construction of a training building and maintenance shop. The structure will be two-story block and stucco construction. The maintenance shop will consist of the same construction. The exterior appearance will be compatible with the nearby facility being constructed by the Waterways Experiment Station. Air conditioning: 180 tons.

11. REQUIREMENT: 75,725 SF Adequate: 0 SF Substandard: 21,729 SF

PROJECT: Construct a 300-member USAR center and maintenance shop. (New mission)

REQUIREMENT: The facility includes space intended for the 475th Military Intelligence Detachment. The unit was deactivated after the project preconcept design had been approved. The limited amount of additional space being provided did not warrant redesigning the facility. The new facility will accommodate the 412th Engineer Command. It will provide admininstrative, educational, storage and special training areas. The special training area includes a classified training area.

CURRENT SITUATION: The existing facilities consist of two structures which are over 35 years old. These two facilities are located approximately one quarter mile apart. The structures are difficult to heat and cool. The separation also adversely affects training. There is a shortage of administrative space, educational, storage, and

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Vicksburg, MS		
4. PROJECT TITLE USARC/OMS		5. PROJECT NUMBER CAR 91-0589

training space. There is also a shortage of private and military vehicle parking areas. The existing buildings and land will be excessed upon completion of this project.

IMPACT IF NOT PROVIDED: The unit will not be able to conduct training properly and be prepared to meet their readiness and mobilization objectives with the continued use of substandard facilities.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 02/87
    (b) Percent Complete as of January 1990. 100
    (c) Date Design 35% Complete 11/87
    (d) Date Design Complete 01/89
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used NA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(390)
    (b) All Other Design Costs . . . .(365)
    (c) Total. . . . .(755)
    (d) Contract . . . .(0)
    (e) In-house . . . .(755)
  (4) Construction start. 02/91
month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	303
Kitchen Equipment	OMAR	1991	230
Total			533

1. COMPONENT USAR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Bronx, NY		4. AREA CONSTR COST INDEX 1.14

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 3 weekends/month; 3 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Yonkers, NY - 2 miles
USAR Center, Bronx, NY - 3 miles
NG Armory, Bronx, NY - 3 miles
USNR Center, New Rochelle, NY - 4 miles
NG Armory, Queens, NY - 0 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ADD/ALT USARC/OMS	58,500 SF	8,099	05/87	06/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

1 Mar 89
(Date)

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT		2. DATE
USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Bronx, NY

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	11	1	4	6	410	75	335
ACTUAL	12	1	4	7	402	64	338

12. RESERVE UNIT DATA ASGD/AUTH 98%

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
142ND S & S CO (-)	117	112
211TH MI CO	93	79
351ST PSYOPS CO	79	110
1163RD USAR SCHOOL	87	65
867TH AG DET	34	36
Totals	410	402

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	48	48
Trailers	94	94
Tracked Vehicles	142	142
Totals	284	284

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Bronx, NY	4. PROJECT TITLE ADD/ALT USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-1260	8. PROJECT COST ($000) 8,099

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				6989
Training Building Alteration	SF	58350	119.50	(6973)
Maintenance Building	SF	150	109.00	(16)
SUPPORTING FACILITES:				322
Site Improvement	LS			(191)
Telecommunications	LS			(50)
Paving	SY	1857	35.75	(66)
Wash Racks	LS	1		(15)
TOTAL CONSTRUCTION COST				7311
Contingencies (5%)				366
Supervision and Administration (5.5%)				422
TOTAL PROJECT COST				8099

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for alterations to an existing center with a two story addition. New work will harmonize with existing construction. Work will include seismic upgrading and asbestos removal. The maintenance shop and all parking areas will also be expanded. Air conditioning: 60 tons.

11. REQUIREMENT: 58,500 SF Adequate: 0 SF Substandard: 58,350 SF

PROJECT: Alter and expand an existing USAR training facility with storage and provide a maintenance shop. (Current mission)

REQUIREMENT: This project was originally intended for nine Judge Advocate General detachments, and a field hospital which now will be stationed at other locations. Redesign of this project is not required because the project is an alteration to an existing facility. Project will provide space for a supply and service company, military intelligence company, psyops company, Reserve school, and adjutant general detachment with administrative space for full-time and Reserve personnel, small unit and individual training facilities which include classrooms, library, learning center, and instructor preparation area, arms vault and arms maintenance area, kitchen, and associated facilities, storage space for school publications, individual and unit equipment, and military equipment parking.

CURRENT SITUATION: This center is a former warehouse which does not meet any of the space requirements of the assigned units. Hallways are

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Bronx, NY		
4. PROJECT TITLE ADD/ALT USARC/OMS		5. PROJECT NUMBER CAR 91-1260

25 feet wide and do not provide usable floor space further reducing overall net usable space. The state of maintenance and repair of this center is extremely poor requiring constant and costly repairs. It is poorly insulated and has an inefficient heating system. There are no facilities for small unit training, individual skill training, space for the storage of manuals, and other learning materials, or space for school instructors to train and prepare instruction. There are no facilities to store or prepare meals. Storage for school publications, unit and individual equipment is substandard and does not meet present requirements.
IMPACT IF NOT PROVIDED: All the identified units located at this facility will be forced to remain in their current overcrowded conditions with insufficient functional areas. Individual skill training will be severely limited and small unit training will be deferred to annual training or require travel to suitable facilities with loss of valuable training time. The shortage of storage space and military equipment parking detracts from maintenance training, equipment operation training, and the condition of unit equipment. These deficiencies will affect the retention and recruiting of unit members, impacting the mobilization preparedness and readiness of these units.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 05/87
    (b) Percent Complete as of January 1990. 100
    (c) Date Design 35% Complete 07/88
    (d) Date Design Complete 06/89
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used NA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(380)
    (b) All Other Design Costs . . . .(170)
    (c) Total. . . . .(550)
    (d) Contract . . . .(209)
    (e) In-house . . . .(341)
  (4) Construction start. 01/91
month and year

b. Equipment associated with this project which will be provided from other appropriations:

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Bronx, NY		
4. PROJECT TITLE ADD/ALT USARC/OMS		5. PROJECT NUMBER CAR 91-1260

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	234
Kitchen Equipment	OMAR	1991	100
Total			334

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1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Kenton, OH		4. AREA CONSTR COST INDEX 1.01

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 1 weekend/month; 1 night/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Kenton, OH - 1 mile
NG Armory, Bellefontaine, OH - 22 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ADD/ALT USARC/OMS	22,064 SF	2,804	03/85	07/87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

16 Aug 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT USAR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Kenton, OH

11. PERSONNEL STRENGTH AS OF 15 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	7	1	5	1	126	5	121
ACTUAL	8	0	7	1	142	4	138

12. RESERVE UNIT DATA ASGD/AUTH 113%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
251ST TC CO TML TRFR	126	142

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	62	62
Trailers	24	24
Totals	86	86

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

DD Form 1390S/2, MAY 78 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Kenton, OH	4. PROJECT TITLE ADD/ALT USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0351	8. PROJECT COST ($000) 2,804

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1926
Training Building Addition	SF	14276	98.50	(1406)
Training Building Alteration	SF	4316	40.60	(175)
Maintenance Building	SF	3472	99.30	(345)
SUPPORTING FACILITES:				605
Site Improvement	LS			(366)
Telecommunications	LS			(35)
Paving	SY	5010	31.80	(159)
Lighting	LS			(45)
TOTAL CONSTRUCTION COST				2531
Contingencies (5%)				127
Supervision and Administration (5.5%)				146
TOTAL PROJECT COST				2804

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide an expansion to the existing one-story facility and a maintenance shop of all new permanent construction using brick/concrete masonry unit for the exterior finish, concrete floors, and built-up roofs. It will also provide unit storage through the renovation and conversion of the existing training building. The existing substandard maintenance building will be demolished. Air conditioning: 25 tons.

11. REQUIREMENT: 22,064 SF Adequate: 0 SF Substandard: 4,316 SF

PROJECT: Construct an addition to and make alterations to an existing 150-member USAR training facility with storage and maintenance shop. (Current mission)

REQUIREMENT: This project is required to house the reconstituted 251st Transportation Company. The company was split due to the size of the company and the large equipment assigned at two different Reserve centers. This project will meet the unit's total requirements for administrative space, small unit and individual training facilities. Included are classrooms, library, learning center, arms vault, arms maintenance area, rifle range, dining facilities, storage space for individual and unit equipment, and privately owned vehicle parking. The maintenance shop will provide equipment work bays, administrative office space, tool and parts room, battery charging and storage, flammable storage, and expand the military equipment parking area for mission essential equipment.

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Kenton, OH		
4. PROJECT TITLE ADD/ALT USARC/OMS		5. PROJECT NUMBER CAR 91-0351

CURRENT SITUATION: The existing center is a single story brick 25-member Reserve center with 4,316 square feet of space constructed in 1959. Insufficient administrative space is available to support the full-time personnel. Modification of other areas was required to accommodate administrative requirements. The existing facility does not have space authorized for training, storage, administration, or equipment maintenance. Sustainment of critical unit and individual soldier skills is very difficult because of space shortages. Mission essential unit and individual equipment has been stored in other Government facilities. Military equipment parking and privately owned vehicle parking areas are severely less than required.
IMPACT IF NOT PROVIDED: The unit assigned will continue to suffer from poor administrative support affecting the retention and recruiting of unit members. Insufficient classroom and training facilities will severely impact on the individual skill qualifications of the soldiers and the abilities of the unit to train for their war time mission. Shortage of unit and individual storage space for equipment will continue to result in the loss of valuable training time because of the need to travel between the center and other Government facilities in order to conduct training. Use of existing facilities will continue to degrade the mobilization readiness of this unit.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 03/85
    (b) Percent Complete as of January 1990. 100
    (c) Date Design 35% Complete 03/86
    (d) Date Design Complete 07/87
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used NA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(98)
    (b) All Other Design Costs . . . .(144)
    (c) Total. . . . .(242)
    (d) Contract . . . .(165)
    (e) In-house . . . .(77)
  (4) Construction start. 01/91
    month and year

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90.

3. INSTALLATION AND LOCATION
USAR Center, Kenton, OH

4. PROJECT TITLE ADD/ALT USARC/OMS	5. PROJECT NUMBER CAR 91-0351

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	89
Kitchen Equipment	OMAR	1991	43
Wire Partitions	OMAR	1991	9
Dehumidifier	OMAR	1991	1
Shelving	OMAR	1991	10
Total			152

DD 1 FORM DEC 76 1391c

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, New Castle, PA		4. AREA CONSTR COST INDEX 0.99

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 1 weekend/month; 4 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, New Castle, PA - 1 mile
NG Armory, Sharon, PA - 24 miles
AFR Center, Beaver Falls, PA - 22 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ADD/ALT USARC/OMS	15,710 SF	1,418	07/85	01/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

27 Sep 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

1. COMPONENT		2. DATE
USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	Jan 90

3. INSTALLATION AND LOCATION
USAR Center, New Castle, PA

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	4	1	2	1	86	3	83
ACTUAL	4	1	2	1	87	2	85

12. RESERVE UNIT DATA ASGD/AUTH 101%

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
92ND FA, 4TH BN, C BTRY	86	87

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	9	9
Trailers	10	10
Tracked Vehicles	9	9
Totals	28	28

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, New Castle, PA	4. PROJECT TITLE ADD/ALT USARC/OMS

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0213	8. PROJECT COST ($000) 1,418

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1067
Training Building Addition	SF	8380	78.75	(660)
Training Building Alteration	SF	4460	47.08	(210)
Maintenance Building Addition	SF	1545	87.38	(135)
Maintenance Building Alteration	SF	1325	46.79	(62)
SUPPORTING FACILITES:				213
Site Improvement	LS			(118)
Telecommunications	LS			(5)
Paving	SY	2286	35.00	(80)
Lighting	LS			(10)
TOTAL CONSTRUCTION COST				1280
Contingencies (5%)				64
Supervision and Administration (5.5%)				74
TOTAL PROJECT COST				1418

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide an expansion to the existing facility of permanent masonry type construction consisting of concrete masonry unit and brick, built-up roof, and concrete floors. Alterations include energy conservation improvements and modifications to utilities systems. Existing maintenance facility will be expanded using similar construction. Air conditioning: 7 tons.

11. REQUIREMENT: 15,710 SF Adequate: 0 SF Substandard: 5,785 SF

PROJECT: Add to and alter an existing training center and organizational maintenance shop. (Current mission)

REQUIREMENT: This facility supports a field artillery battery requiring administrative space, small unit and individual training facilities which include assembly hall, classrooms, library, and learning center, arms vault and arms maintenance area, associated mess facilities, storage space for individual and unit equipment, and parking for privately owned vehicles. The organizational maintenance shop will provide equipment work bays, shop office, tools and parts room, battery charging and storage area, flammable storage, and military equipment parking.

CURRENT SITUATION: The existing building is a single story, brick, 25-member facility with 4,316 square feet constructed in the late 1950's. The facility has insufficient space for administration, unit training, individual skill training, and storage of manuals and other learning

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, New Castle, PA

4. PROJECT TITLE
ADD/ALT USARC/OMS

5. PROJECT NUMBER
CAR 91-0213

materials. A kitchen does not exist and the arms storage vault does not meet current physical security standards. Storage space for unit and individual equipment is insufficient requiring much of assigned equipment to be stored in other government facilities. The maintenance shop does not have office space, tool and parts room, battery room, and restroom facilities. Military equipment parking is insufficient and will not hold unit's equipment.
IMPACT IF NOT PROVIDED: The unit assigned will continue to suffer from poor administrative support affecting the retention and recruiting of unit members. Shortages of library and learning center and other training facilities will severely impact on the skill qualifications of the individual soldier and the abilities of the unit to train. Shortage of unit and individual storage space for equipment will continue to result in the loss of valuable training time because of the need to travel between the center and other Government facilities to obtain mission essential training equipment. These substandard facilities will continue to degrade the mobilization readiness of this crucial combat asset.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
(1) Status:
(a) Date Design Started. 07/85
(b) Percent Complete as of January 1990. 100
(c) Date Design 35% Complete 07/85
(d) Date Design Complete 01/89
(2) Basis:
(a) Standard or Definitive Design - No
(b) Where Design Was Most Recently Used NA
(3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
(a) Production of Plans and Specifications . . .(44)
(b) All Other Design Costs . . . .(82)
(c) Total. . . . .(126)
(d) Contract . . . .(62)
(e) In-house . . . .(64)
(4) Construction start. 12/90
month and year
b. Equipment associated with this project which will be provided from other appropriations:

DD 1 FORM DEC 76 1391c

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, New Castle, PA		
4. PROJECT TITLE ADD/ALT USARC/OMS		5. PROJECT NUMBER CAR 91-0213

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	63
Kitchen Equipment	OMAR	1991	70
Total			133

DD 1 FORM DEC 76 1391c

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Covington, VA		4. AREA CONSTR COST INDEX 0.92

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 1 weekend/month; 4 nights/week
Full-Time Personnel - 5 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Covington, VA - 5 miles
NG Armory, Roanoke, VA - 45 miles
USAR Center, Lewisburg, VA - 35 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	ADD/ALT USARC	12,975 SF	1,654	12/84	06/86

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

27 Jan 89 *
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED

None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

None

*A CY 1990 board meeting has not been scheduled prior to Feb 90.

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
USAR Center, Covington, VA

11. PERSONNEL STRENGTH AS OF 20 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	2	0	1	1	98	8	90
ACTUAL	1	0	1	0	83	8	75

12. RESERVE UNIT DATA ASGD/AUTH 85%

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
80TH IN LT WEAPONS COMM	98	83

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
None		

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION USAR Center, Covington, VA	4. PROJECT TITLE ADD/ALT USARC

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0439	8. PROJECT COST ($000) 1,654

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1058
Training Building Addition	SF	9625	89.75	(864)
Training Building Alteration	SF	3350	57.82	(194)
SUPPORTING FACILITES:				435
Site Improvement	LS			(309)
Telecommunications	LS			(26)
Paving	SY	4500	20.89	(94)
Lighting	LS			(6)
TOTAL CONSTRUCTION COST				1493
Contingencies (5%)				75
Supervision and Administration (5.5%)				86
TOTAL PROJECT COST				1654

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide for additions to and alteration of existing one-story training building. New construction will match existing building and will consist of concrete masonry unit/brick, structural steel and built-up roof. Project includes modifications to electrical and mechanical systems. Addition will include assembly hall, kitchen, classroom, unit storage and rifle range. Air conditioning: 23 tons.

11. REQUIREMENT: 12,975 SF Adequate: 0 SF Substandard: 3,350 SF
PROJECT: Add to and alter an existing USAR center. (Current mission)

REQUIREMENT: This facility supports the 80th Infantry Light Weapons Committee requiring administrative space, small unit and individual training facilities which include assembly hall, classrooms, library, and learning center, arms vault and arms maintenance area, rifle range, associated mess facilities, storage space for individual and unit equipment, and parking for privately owned vehicles and military equipment.
CURRENT SITUATION: The existing facility is a 25-member USAR center with 4,316 square feet constructed in the late 1950's. The facility is short administrative space for individual skill training, and storage of manuals and other learning materials. The kitchen is small and substandard. The arms storage vault does not meet current physical security standards. Storage space for unit and individual equipment is

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90
3. INSTALLATION AND LOCATION USAR Center, Covington, VA		
4. PROJECT TITLE ADD/ALT USARC		5. PROJECT NUMBER CAR 91-0439

insufficient requiring much of assigned equipment to be stored in other Government facilities. There is insufficient privately owned vehicle parking for unit members. The maintenance shop is being utilized for unit storage.

IMPACT IF NOT PROVIDED: The unit assigned will continue to suffer from poor administrative support affecting the retention and recruiting of unit members. Insufficient library and learning center and other training facilities will severely impact on the skill qualification of the individual soldiers and unit's ability to train for their mission. The space shortage will force the deferment of unit type training to annual training or require lengthy travel to suitable facilities. Shortages of unit and individual storage space for equipment will continue to result in the loss of valuable training time because of the need to travel between the center and other Government facilities to obtain mission essential equipment training. These substandard facilities will continue to degrade the mobilization readiness of this crucial combat asset.

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 12/84
    (b) Percent Complete as of January 1990. 100
    (c) Date Design 35% Complete 02/86
    (d) Date Design Complete 06/86
  (2) Basis:
    (a) Standard or Definitive Design - No
    (b) Where Design Was Most Recently Used NA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(81)
    (b) All Other Design Costs . . . .(44)
    (c) Total. . . . .(125)
    (d) Contract . . . .(0)
    (e) In-house . . . .(125)
  (4) Construction start. 01/91
    month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	64
Kitchen Equipment	OMAR	1991	50
Total			114

1. COMPONENT
USAR

FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION

2. DATE
Jan 90

3. INSTALLATION AND LOCATION
Ft McCoy, Ft McCoy, WI

4. AREA CONSTR COST INDEX
1.10

5. FREQUENCY AND TYPE UTILIZATION

Reservists - 4 weekends/month; 7 nights/week
Full-Time Personnel - 7 days/week

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NG Armory, Sparta, WI - 7 miles
NG Armory, Tomah, WI - 12 miles

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-40	Regional Training Site - Medical	29,611 SF	2,258	10/87	03/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

25 May 89
(Date)

Facilities identified in Item 6 have been examined by the Joint Service Reserve Component Facility Board for possible joint use/expansion. The board recommends unilateral construction.

9. LAND ACQUISITION REQUIRED
None

0
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

ARRTC-Phase II - FY 1994 $10800

1. COMPONENT USAR	**FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION**	2. DATE Jan 90

3. INSTALLATION AND LOCATION
Ft McCoy, Ft McCoy, WI

11. PERSONNEL STRENGTH AS OF 15 Dec 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZE	14	2	12	0	0	0	0
ACTUAL	0	0	0	0	0	0	0

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL

This project will provide a 400-bed DEPMEDS training center for 17 Army Reserve hospitals and numerous small medical detachments. More than 12,000 reservists will train at the center. Personnel fill for full-time staff will be effective 1 Oct 1989.

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ACTUAL
Wheeled Vehicles	44	44
Trailers	17	17
Totals	61	61

14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES

	($000)
Air Pollution	0
Water Pollution	0
Safety and Occupational Health	0

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION Ft McCoy, Ft McCoy, WI	4. PROJECT TITLE Regional Training Site - Medical

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER CAR 91-0789	8. PROJECT COST ($000) 2,258

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PRIMARY FACILITES:				1457
Training Building	SF	29611	49.21	(1457)
SUPPORTING FACILITES:				581
Site Improvement	LS			(527)
Telecommunications	LS			(33)
Lighting	LS			(21)
TOTAL CONSTRUCTION COST				2038
Contingencies (5%)				102
Supervision and Administration (5.5%)				118
TOTAL PROJECT COST				2258

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project will provide facilities which are required to support the tri-service deployable medical system (DEPMEDS). Air conditioning: 22 tons.

11. REQUIREMENT: 29,611 SF Adequate: 0 SF Substandard: 0 SF

PROJECT: Construct a Regional Training Site-Medical. (New mission)

REQUIREMENT: This project provides facilities necessary to conduct and support training of the Reserve Components on the Tri-Service Deployable Medical System (DEPMEDS). Facility provides for hands-on training on a 400-bed DEPMEDS configured as it would be deployed under field conditions. This training facility will provide a field training site to place DEPMEDS equipment in an operational configuration and will provide opportunities to conduct hands-on training.

CURRENT SITUATION: Training of medical personnel is extremely limited due to lack of both DEPMEDS and training areas. Presently, Reserve units train at local federal hospital facilities or in a field environment where tents are used to simulate a field hospital. Training on the new generation of DEPMEDS is currently not provided to the Reserve component and units will not be able to develop skills with the equipment they will have upon mobilization.

IMPACT IF NOT PROVIDED: Training on DEPMEDS will not take place and the readiness of these units will be at an unacceptable level.

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	**2. DATE** Jan 90
3. INSTALLATION AND LOCATION Ft McCoy, Ft McCoy, WI		
4. PROJECT TITLE Regional Training Site - Medical		**5. PROJECT NUMBER** CAR 91-0789

12. SUPPLEMENTAL DATA:

a. Estimated Design data:
  (1) Status:
    (a) Date Design Started. 10/87
    (b) Percent Complete as of January 1990. 90
    (c) Date Design 35% Complete 03/88
    (d) Date Design Complete 03/89
  (2) Basis:
    (a) Standard or Definitive Design - Yes
    (b) Where Design Was Most Recently Used Parks RFTA, CA
  (3) Total cost (c) = (a) + (b) or (d) + (e) : ($000)
    (a) Production of Plans and Specifications . . .(81)
    (b) All Other Design Costs . . . .(60)
    (c) Total. . . . .(141)
    (d) Contract . . . .(111)
    (e) In-house . . . .(30)
  (4) Construction start. 04/91
    month and year

b. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Furniture	OMAR	1991	119
Wire Partitions	OMAR	1991	135
Total			254

1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION Various Locations	4. PROJECT TITLE Minor Construction (Unspec)

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $2,353

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Unspecified Minor Construction	LS			2353

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provides a lump sum amount for unspecified construction projects, not otherwise authorized by law, having a funded cost of $400,000 or less, including construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC 2233 and 2233a.

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11. REQUIREMENT: This package provides the means of accomplishing projects not exceeding $400,000 that are not now identified but which are anticipated to arise during FY 91.

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1. COMPONENT USAR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE Jan 90

3. INSTALLATION AND LOCATION Appropriate USAR Installations As Necessary	4. PROJECT TITLE Planning and Design

5. PROGRAM ELEMENT 55994A	6. CATEGORY CODE 171-40	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $4,756

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Various Locations	LS			4756

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Prepare engineering drawings and specifications necessary to support projects to be constructed as part of the Military Construction Army Reserve program.

11. REQUIREMENT: To provide for design of necessary construction projects that support the Reserve mission.

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